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August 2011

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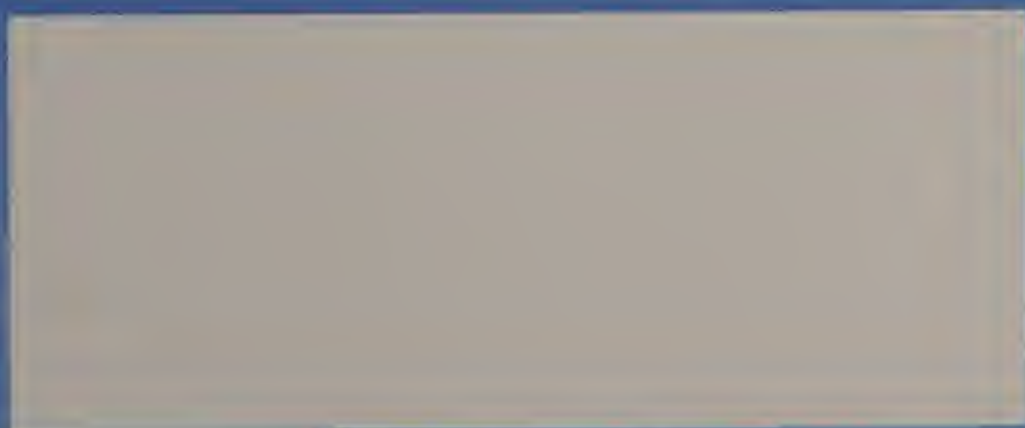
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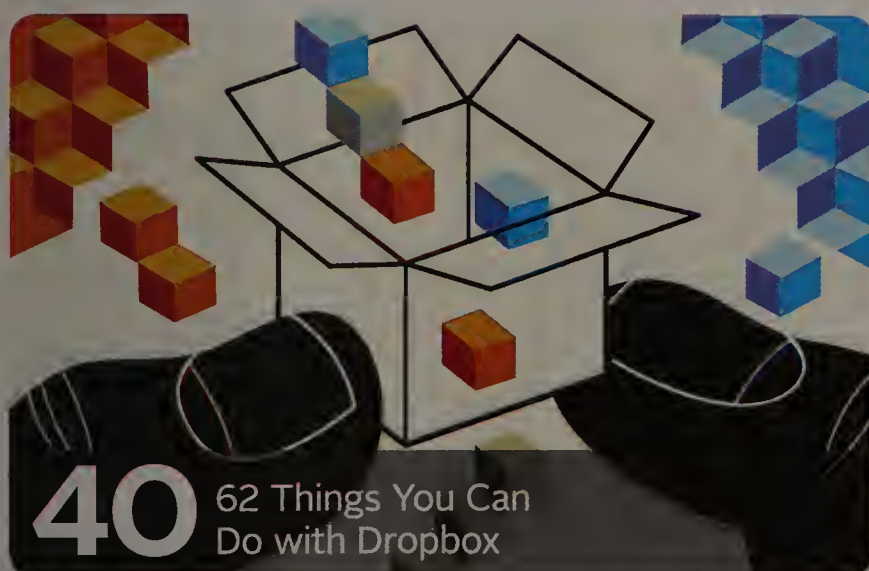
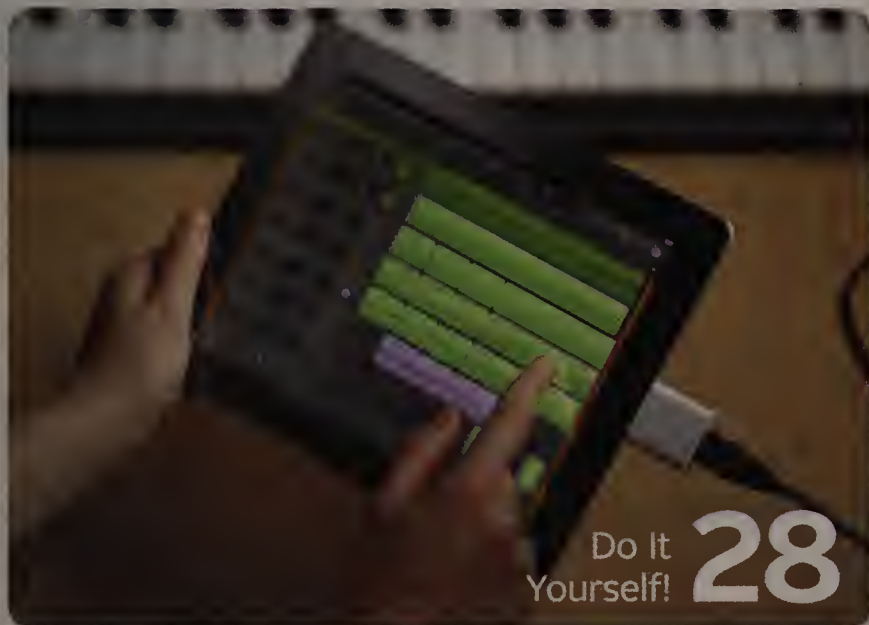
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CONTENTS

August 2011



On the Cover

Illustration by Joe Zeff Design



For our coverage of Apple's WWDC announcements, see pages 10, 22, and 62.

FEATURES

28 Do It Yourself!

In the spirit of Mac DIY creativity, we've put together four projects that represent the kinds of great things Macs inspire us to do every day.

40 62 Things You Can Do with Dropbox

Macworld editors love the file-synchronizing service Dropbox. But we wanted to find out how Macworld readers use it, too. So we asked, and your response was incredible. Check out these tips from fellow readers.

OPINION

5 From the Editor's Desk

Jobs and company settle old scores and take bold new steps.

MAC USER

10 Apple's Online Revolution

At June's WWDC, Apple announced iCloud, a replacement Web service for MobileMe.

11 Mac OS X 10.7 to Be Available Only through the Mac App Store

12 New BTO iMacs: Core i7 Processors Impress

14 Apple Store's Personal Setup Makes It Easy to Try New Gadgets

PLUS: Hot Stuff 20

16 Mac Gems

Block tracking by sites that track your Internet activity, tidy up your notifications, and more.

iOS CENTRAL

22 Ten for 5: iOS Changes of Note

From better notifications to app improvements, there's plenty to like about iOS 5.

24 Apple Backing App Makers in Legal Fight over Patents

26 App Guide

Each month, we review the App Store offerings that have caught our eye.

WORKING MAC

- 52 Free Your Office from Paper**
Follow our simple tips to reduce your paper usage and increase your efficiency.
- 54 More Ways to Go Green**
- 56 Stamp Out E-mail Annoyances**
- PLUS: Reviews 58, Business Center 60**

PLAYLIST

- 62 First Look: iTunes in the Cloud**
iCloud and iTunes could very well change the way you listen to music.
- 64 Capture Audio with Soundflower**
- PLUS: Reviews 66**

DIGITAL PHOTO

- 68 Strategies for New Aperture Libraries**
The choices you make when you bring your images into the Aperture library determine the organizational options you have down the road.
- 69 Edit Images on Your iPad**
- 70 REVIEW Acorn Image Editor**
- 72 Make Time-Lapse Videos with Automator**
- PLUS: Reviews 74, Hot Stuff 76**

CREATE

- 78 On Alert: Customize Your Mac's Sounds**
Create custom alerts for your Mac.
- 79 Corel Enters CAD Arena with CorelCAD**
- 80 Create Your Own Sports Channel in iMovie**
- PLUS: Reviews 82**

HELP DESK

- 84 Mac OS X Hints**
Quickly delete iPhone photos, auto-delete .zip files, sign PDFs, and more.
- 86 Mac 911**
Learn what happens to your iTunes files in the event of your death, monitor Internet usage, and more.

BACK PAGE

- 100 Spotlight**
The influence of today's iPhones and iPads will still be felt decades from now.

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**Video: iPad Styluses in Action**

Serenity Caldwell shows off a dozen styluses you can use in tandem with the iPad (macworld.com/7285).

We also recommend:

Podcast: AppleScript and iTunes (macworld.com/7286).

Podcast: Thoughts on the Apple Retail Store (macworld.com/7287).

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Apple Turns the Page

Jobs and company settle old scores, take bold new steps

In the movie *Goodfellas*, one of the mobsters decides that the guys who pulled off a heist need to be liquidated; there's a montage in which we see the results, one body at a time. It's like that other famous mob montage, in *The Godfather*, when Michael Corleone has his rivals knocked off, one after another.

The keynote presentation at Apple's Worldwide Developers Conference (WWDC) in June reminded me of those two scenes. I'm not saying Apple has a gangland mentality. But the way it's addressing longstanding weaknesses in its products while also moving in some ambitious new directions put me in mind of a cold-blooded movie tough guy.

Old Business

In announcing iOS 5, Apple's Scott Forstall previewed ten of its new features. But that short list included fixes for many of our biggest complaints about iOS (for details, see "Ten for 5: iOS Changes of Note," *iOS Central*, page 22). Forstall whacked the old notifications system, cut the tether that binds iOS devices to computers, and sent the outmoded SMS text-messaging system to sleep with the fishes.

The way push notifications appear now (as individual pop-up alerts, with a stack of them on the locked screen) is a mess. This feature will be completely overhauled in iOS 5, with the introduction of Notification Center. Among the other fixes to come: Safari on the iPad will now support tabbed browsing. There's finally a built-in to-do list, in the form of the Reminders app. The Camera app finally lets you take a picture by pressing a hardware button. And the list goes on.

Head in the Cloud

There's an even bigger rethink on the way: MobileMe wasn't a bad product, but it couldn't compete with other Web services that offered most of its functionality for



Do the ways we work with Macs always make sense? (Spoiler alert: No, they don't.)

free. Now Apple is killing it outright and replacing it with iCloud (see "Apple's Online Revolution," *MacUser*, page 10).

Because iCloud is going to be free (unlike MobileMe), every iPhone and iPad owner can be expected to have an account. And that changes everything. You won't have to plug your iPhone into a Mac before you can use it: Enter your Apple ID, and your address book, bookmarks, e-mail, calendars, and the rest will download from iCloud.

More importantly, iCloud will be deeply integrated into OS X and iOS. It will be part of the hardware/software synthesis that is at the core of Apple's ability to build great products. Online has always seemed tangential to Apple's core business. But iCloud is going to be *everywhere*.

That's one reason I think iCloud will succeed: It's now front and center, with nowhere to hide, and it's just as much a part of Apple's products as the operating systems and the physical hardware. As such, iCloud will get the same brutal scrutiny as any other Apple product.

There might be some bumps along the way, but I believe Apple will get it right. In fact, Apple *must* get it right.

New Business

Though much of Apple's energy is devoted to the iOS these days, Mac sales continue to outpace the rest of the PC market. With Lion (Mac OS X 10.7)—due in July—Apple is showing that it's still innovating on the Mac.

There are hundreds of new features in Lion. To me, the most impressive ones are Auto Save, Resume, and Versions. All three come from Apple asking a simple question: Do the ways we work with Macs always make sense? (Spoiler alert: No, they don't.)

Why, for example, do we have to hit ⌘-S when we want to save our documents? When you quit an app or shut down your Mac, why do you have to decide whether or not to save every open document? In Lion, the Save command vanishes; documents auto-save. And apps just shut down; when they resume, the files you were working on are open, just as you left them.

Versions is like Time Machine for files: As apps auto-save, they also keep track of what's changed since the last save. If you regret deleting something yesterday, you can roll back to an older version and grab whatever you want to restore. It's an ambitious feature that could change the way we work.

This is the path Apple has chosen to take with OS X and other product lines: It's shedding old liabilities and taking on bold new initiatives. Apple can do both without a lot of bloodshed, but its approach is still aggressive. I think the Godfather would have approved.

Jason Snell is the editorial director for *Macworld*. You can contact him at jason_snell@macworld.com or follow him on Twitter at twitter.com/jsnell.

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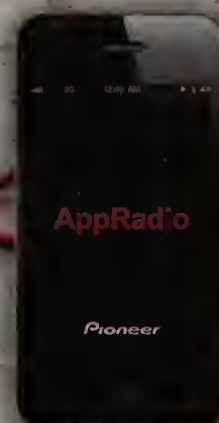
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Apple's Online Revolution

New iCloud replaces MobileMe for syncing and more

BY JONATHAN SEFF

As he unveiled iCloud—a new wireless data-syncing service for iOS devices, Macs, and PCs—at Apple's Worldwide Developers Conference, CEO Steve Jobs said, “Some people think the cloud is just a hard disk in the sky ... it's way more than that.”

When it launches this fall, the free iCloud will replace Apple's \$99-a-year MobileMe service. Like MobileMe, iCloud will offer the ability to sync contacts, calendars, bookmarks, and e-mail across devices. But that's not all it will do.

What's New

For starters, in addition to building support for iCloud into iCal, Address Book, and Mail (and their iOS counterparts), Apple is creating three new apps that will also take advantage of online syncing.

The first, Documents, will upload Pages, Numbers, and Keynote documents to the new online service for syncing. For example, if you create a Keynote presentation on an iPad, Documents will store that presentation. If your iPhone has the latest version of Keynote for iOS, you can then edit that presentation on your

Steve Jobs at Apple's WWDC: “Some people think the cloud is just a hard disk in the sky ... it's way more than that.”

phone. If it all works as advertised, this method of syncing will be much easier than the current options—which include attaching your iPad to a Mac, synchronizing the presentation there, and then connecting your iPhone and transferring the presentation to that device.

Coordinated via iCloud Your contacts—as well as your calendar, mail, and more—will always be in sync across your iOS devices, Macs, and PCs, thanks to the free iCloud service.

A second new app, Photo Stream, will let you take photos on any device and upload them for immediate syncing. Photo Stream also works with iPhoto on the Mac, and it can work with the second-generation Apple TV to display photos on your TV.

Because photo files are so large, Apple says that this photo-syncing will work over Wi-Fi or ethernet only, not over

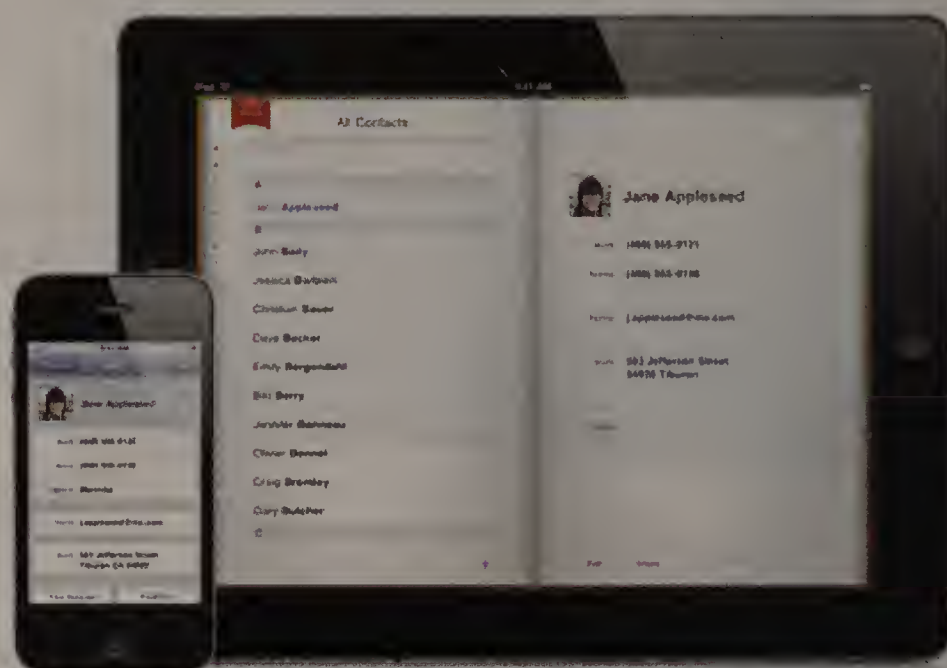
your cellular connection. For the same reason, Photo Stream will synchronize only the 1000 most recent photos on your iOS devices. (There's no limit for photos on Macs and PCs.) Photos remain on iCloud for 30 days after you upload them.

The last new app is iTunes in the Cloud. For more on that, see “First Look: iTunes in the Cloud,” (*Playlist*, page 62).

Apple is also releasing APIs for the service, which will enable third-party developers to build support for iCloud into their apps (just as many Mac and iOS apps now have built-in support for Dropbox [dropbox.com]). Such applications would be able to store documents and other user data in iCloud and automatically sync them whenever you make changes on any of your devices.

Backup and Purchase History

The new iCloud service will also support automatic data backup. Once a day, iCloud will back up much of your important content to the cloud over Wi-Fi. It won't back up everything every day, and the backup will include only the information that has changed since that previous backup: But it will include



purchased music, apps, and books; your Camera Roll (photos and videos); device settings; app data; home screen and app organization; text and MMS messages; and ringtones. If you ever get a new phone or need to restore from a backup, you'll be able to type in your Apple ID and password, and everything will be downloaded to that phone automatically.

iCloud will also let you view your purchase history on the App Store, allowing you to re-download previously purchased apps to your iPhone, iPad, or iPod touch—no matter which device you used for the original purchase—at no additional charge. When you buy new apps, iCloud can push them to all of your devices automatically for free. Similarly, with the iBooks app on your iOS device or the iBookstore on your desktop Mac or PC, you can get a list of your past book purchases and download those titles again to any of your devices. When you buy a new book, it will appear everywhere. When you start reading on one device, iCloud will save your place; your iBook bookmarks, as well as highlighted text and notes, will also be automatically pushed to all your other devices if you've turned on Automated Downloads in your iOS device's Store settings.

Specs and Availability

Users get 5GB of free storage for mail, documents, and backup. Purchased music, apps, books, and Photo Stream photos won't count against that total.

The new service and its software will be available this fall, at the same time as iOS 5. Users of iOS 4.3 can try out a beta of iTunes in the Cloud now by launching the iTunes app and clicking on the Purchased button. iTunes 10.3 users can also try out iTunes in the Cloud.

MobileMe accounts will be automatically extended until June 30, 2012, at no charge. After that date, the MobileMe service will be discontinued. MobileMe users will need to sign up for iCloud; you'll be able to keep your me.com or mac.com e-mail addresses. Once you've established your iCloud account, you can move your MobileMe mail, contacts, calendars, and bookmarks to the new account.

Mac OS X 10.7 to Be Available Only through Mac App Store

BY SERENITY CALDWELL

Apple announced at its Worldwide Developers Conference in June that OS X 10.7 (aka Lion), the new Mac operating system, will be available in July for just \$30. But in order to get it, you need access to the Mac App Store.

Lion will be available only as a direct 4GB download from the Mac App Store. The download will work on all Macs authorized with your Apple ID; however, because the Mac App Store is available only for customers running OS X 10.6.6 or later, users who wish to upgrade to Lion will need the latest version of Snow Leopard installed.

At WWDC, Apple executives Phil Schiller and Craig Federighi demonstrated ten of Lion's 250-plus new features: multitouch gestures, full-screen applications, Mission Control, the Mac App Store, Launchpad, Resume, Auto Save, Versions, AirDrop, and Mail. These features were previously showcased during an Apple event last October. (See "Apple's Lion Gets Ready to Pounce," *MacUser*, January 2011, page 16.)

The Mac App Store—first introduced in Mac OS X 10.6.6—will feature several prominent new features that had not been previously announced. Software

developers who sell software through the Mac App Store will be able to integrate in-app purchases within their programs. A new sandboxing method will help developers use the Mac App Store more securely. And the store will offer push notifications and faster software updates.

Schiller and Federighi said that Lion promises a slew of other new and updated features, including easier migration from Windows machines; an upgraded version of FileVault; a Finder reorganization and new All My Files section, organized by type; one-click archiving in mail; Quick Look Spotlight results; iChat service plug-ins; window resizing from any edge; local snapshots in Time Machine; Exchange 2010 support; a character chooser; and more.

Apple also revealed more details about Lion Server. Like Lion itself, Lion Server will be available exclusively on the Mac App Store; it will cost \$50 and will include the Server application, for setup and administration. Other features include the Profile Manager (for remote management of computers and iOS devices), File Sharing for the iPad, push notifications, Wiki Server 3, iCal Server 3, Mail Server 3, and Xsan Admin, for configuring Xsan volumes.



More Than 250 New Features At WWDC in June, Apple demonstrated some of the added features in its newest Mac OS, code-named Lion.

New BTO iMacs: Core i7 Processors Impress

Optional upgrades worth the cost for Apple's all-in-one computer

BY JAMES GALBRAITH

When Apple released new iMacs in early May, the company also made available new build-to-order (BTO) options in addition to the standard-configuration models. Macworld Lab tested two iMacs with BTO processor upgrades that offer faster speeds and more processing power.

Processor upgrades are optional for two of the four standard-configuration iMac models. For the \$1499 21.5-inch model with a 2.7GHz Core i5 quad-core processor, an upgrade to a 2.8GHz Core i7 quad-core processor is available. For the \$1999 27-inch iMac with a 3.1GHz Core i5 quad-core chip, you can upgrade to a 3.4GHz Core i7 quad-core processor. Each upgrade costs an additional \$200.



The Core i7 Difference

The standard-configuration iMacs use processors that don't have Intel's Hyper-Threading technology, but the Core i7 upgrades do support that

technology. Hyper-Threading allows two processing threads to run on a single core, allowing for faster processing.

However, many applications do not make efficient use of multiple cores, so

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going from four cores to eight virtual ones doesn't make a lick of difference in those cases. Some processor-intensive applications such as HandBrake, Cinema 4D, and Mathematica benefit greatly from Hyper-Threading, however.

Speed Results

Our system-performance test suite, Speedmark 6.5, produced results showing that the 21.5-inch iMac with a BTO 2.8GHz Core i7 processor is about 7 percent faster than the standard 21.5-inch 2.7GHz Core i5 iMac. The 27-inch iMac with a BTO 3.4GHz Core i7 processor is about 11 percent faster than the standard 27-inch 3.1GHz Core i5 iMac.

In individual tasks, the breakdown was as follows: The 21.5-inch iMac with a 2.8GHz Core i7 chip was 15 percent faster than the 21.5-inch iMac with a 2.7GHz Core i5 processor in our iMovie import test, 18 percent faster in our HandBrake encoding test, 22 percent faster in MathematicaMark, and 25 percent faster

in Cinebench's CPU test. The BTO 21.5-inch iMac was 11 percent faster overall than the low-end \$1199 21.5-inch iMac with a 2.5GHz Core i5 processor, 21 percent faster in our iMovie import test, 24 percent faster in HandBrake, 30 percent faster in Cinebench's CPU test, and 31 percent faster in MathematicaMark.

The BTO 21.5-inch iMac was 5 percent faster overall than the \$1999 27-inch iMac with a 3.1GHz Core i5 processor. It was 9 percent faster in our iMovie import test, 12 percent faster in MathematicaMark, and 15 percent faster in Cinebench's CPU test.

The BTO 27-inch iMac was 5 percent faster overall than the BTO 21.5-inch iMac, and it was 8 percent faster in our iMovie import test, 15 percent faster at HandBrake, and 17 percent faster at both Cinebench CPU and MathematicaMark.

Speedmark 6.5 results showed the BTO 27-inch iMac to be 11 percent faster than the standard-configuration 27-inch iMac. Compared with the standard-con-

figuration 27-inch iMac, the BTO 27-inch model was 17 percent faster in iMovie, 21 percent faster in HandBrake, 29 percent faster in Cinebench CPU, and 31 percent faster in MathematicaMark.

Today's standard-configuration 27-inch iMac performed very similarly to a BTO model from last year, a 27-inch iMac with a 2.93GHz Core i7 quad-core processor.

Macworld Lab Test

Speedmark 6.5 Test Results

21.5-Inch iMac Core i7/2.8GHz (BTO, mid-2011)	238
27-Inch iMac Core i7/3.4GHz (BTO, mid-2011)	252
21.5-Inch iMac Core i5/2.7GHz (mid-2011)	223
27-Inch iMac Core i5/3.1GHz (mid-2011)	227

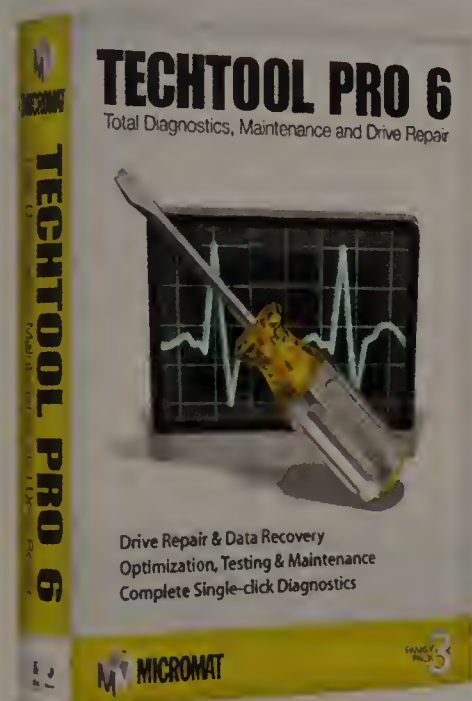
BTO = build to order. Longer bars are better. Reference systems are in *italics*. Speedmark 6.5 scores are relative to those of a 2.4GHz Core 2 Duo Mac mini (mid-2010) with 2GB of RAM, which is assigned a score of 100. For more on Speedmark 6.5 test results, go to macworld.com/6647.—MACWORLD LAB TESTING BY JAMES GALBRAITH, MAURICIO GRIJALVA, AND WILLIAM WANG

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Apple Store's Personal Setup Makes It Easy to Try New Products

BY SERENITY CALDWELL

Along with some iPad-centric décor and an updated Apple Store app, Apple recently introduced the Personal Setup program, where an Apple Store employee can help customers set up a new Mac, iPod, iPad, iPhone, or Apple TV.

The Personal Setup is focused on getting you ready to use whatever you've just bought. For example, if you purchase a MacBook Air, a wireless printer, AirPort Extreme, and Microsoft Office, the employee will make sure everything's hooked up and functional. This way, when you bring these gadgets home, you won't have to spend half an hour bemoaning your apparently nonfunctioning printer because you overlooked a wireless setting somewhere.

Up and Running

For my Personal Setup demonstration, we went with one of the company's more-common in-store purchases: an iPod touch. The Specialist first asked me a few questions, to determine my competency level in regard to iOS devices.

The Specialist then helped me unravel the mystery of the iPod touch packaging, walked me through the contents of the box, and then helped me hook the device up to a MacBook Air to activate it.

Once everything was activated, we went through some simple starter steps: adding e-mail accounts, connecting my iTunes Store Apple ID, downloading some apps, and—because the iPod touch has no cellular connection—a primer on finding available Wi-Fi in the greater metropolitan area.

After these steps, my iPod touch was pretty much ready to go, save for some music, and that was an easy enough fix: I just hopped over to the iTunes app and downloaded a song or two for the road. In just 15 minutes, we'd transformed the iPod touch from lifeless technology to useable music-rocking, game-playing,

Wi-Fi-finding superstar.

As part of the new Personal Setup, customers will receive a customized e-mail message. Depending on what you bought, the company will tailor the e-mail by recommending workshops that might suit your needs, listing some good tips and tricks, and—if you purchased an iOS device—suggesting some good introductory apps

to load onto your device. You'll also get a brief overview regarding Apple's Express Lane tech support and easy access to AppleCare's phone number.



Macs: Current Lineup

PRODUCT	SPECS	RATING	PRICE	DISPLAY	SPEED-MARK 6.5 ^A	FIND CODE ^B
DESKTOP						
iMac 	Intel Core i5/2.5GHz (quad-core)	★★★★	\$1199	21.5 inches	215	7197
	Intel Core i5/2.7GHz (quad-core)	★★★★	\$1499	21.5 inches	223	7198
	Intel Core i5/2.7GHz (quad-core)	★★★★	\$1699	27 inches	222	7199
	Intel Core i5/3.1GHz (quad-core)	★★★★	\$1999	27 inches	227	7200
Mac Mini 	Intel Core 2 Duo/2.4GHz	★★★★	\$699	not included	100	6304
Mac Pro 	Intel Xeon/2.8GHz (quad-core)	★★★★	\$2499	not included	207	6458
	Intel Xeon/2.4GHz (eight-core)	★★★★	\$3499	not included	216	6459
	Intel Xeon/2.66GHz (12-core)	★★★★	\$4999	not included	261	6460
PORTABLE						
MacBook 	Intel Core 2 Duo/2.4GHz (white)	★★★★	\$999	13 inches	99	6207
MacBook Air 	Intel Core 2 Duo/1.4GHz, 64GB	★★★★½	\$999	11 inches	85	6692
	Intel Core 2 Duo/1.4GHz, 128GB	★★★★½	\$1199	11 inches	84	6691
	Intel Core 2 Duo/1.86GHz, 128GB	★★★★	\$1299	13 inches	108	6694
	Intel Core 2 Duo/1.86GHz, 256GB	★★★★	\$1599	13 inches	108	6693
MacBook Pro 	Intel Core i5/2.3GHz (dual-core)	★★★★	\$1199	13 inches	140	7002
	Intel Core i7/2.7GHz (dual-core)	★★★★	\$1499	13 inches	155	7003
	Intel Core i7/2GHz (quad-core)	★★★★	\$1799	15 inches	175	7004
	Intel Core i7/2.2GHz (quad-core)	★★★★½	\$2199	15 inches	209	7005
	Intel Core i7/2.2GHz (quad-core)	★★★★½	\$2499	17 inches	210	7006

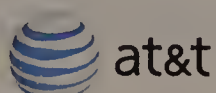
^A Speedmark 6.5 is Macworld Lab's standard test tool for benchmarking systems running Mac OS X 10.6 (Snow Leopard). For more information on Speedmark testing, go to macworld.com/6647. ^B In a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview.



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MAC GEMS

Discover Great, Low-Cost Mac Products **By Dan Frakes**

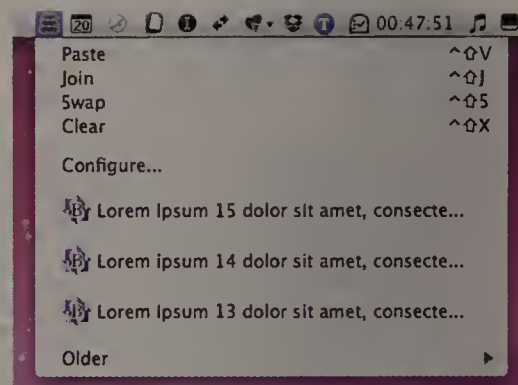
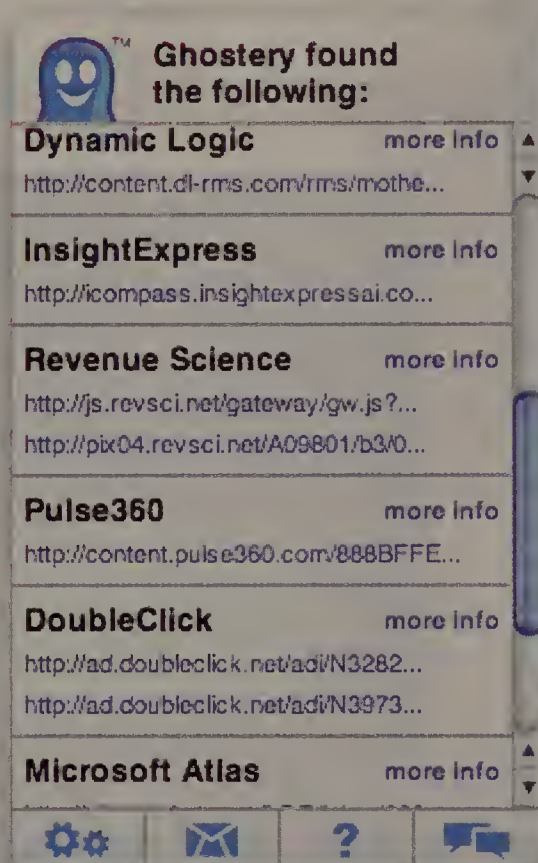
Ghostery 1.0.0

WEB Your Web-browsing habits are being tracked, in surprising detail, every time you go online. For example, blogs and news sites use scripts and tiny (or invisible) images—often called *bugs*—to track your online behavior and, usually, provide that information to ad networks and other companies that track Web usage. Numerous companies maintain detailed profiles that include the kinds of sites you visit, which topics you find interesting, and possibly even specific items you've purchased.

If you'd rather not make it so easy for companies to build a profile of your Internet activity—or if you'd at least like to be able to know when that activity is being tracked—check out Ghostery, a Safari extension (also available for Firefox, Chrome, and Internet Explorer). With Ghostery installed, whenever you visit a Web page that uses such tracking tricks, you'll briefly see a box listing all the services that are tracking your visit to that page. Click the Ghostery icon in Safari's toolbar, and you get a detailed list of each of those services, along with the specific script(s) each is using on that Web page. But Ghostery also lets you *block* this tracking. With this option enabled, Ghostery actively blocks the loading of tracking images and the running of tracking scripts.

Ghostery checks for tracking bugs from more than 200 companies; you can designate specific Websites for which you want Ghostery to allow all tracking—even for particular services that you've otherwise blocked. Ghostery also includes an optional feature—disabled by default—called GhostRank. If you enable GhostRank, Ghostery will collect anonymous information about the Web bugs you encounter, in order to improve Ghostery and its list of tracking services and companies.

🍎🍎🍎; free; Evidon; macworld.com/7228

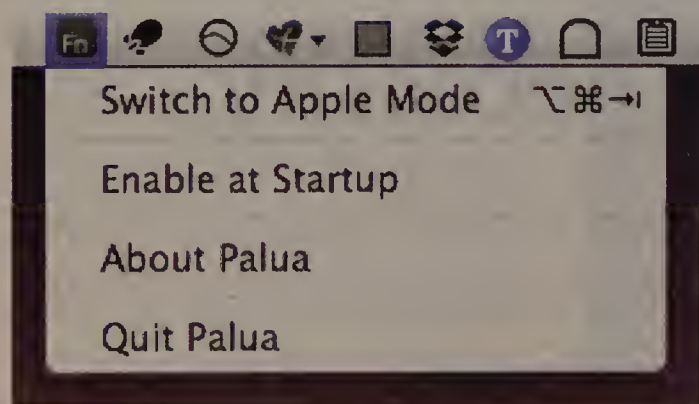


CmdVees 1.0.6

PRODUCTIVITY Multiple-clipboard utilities store multiple recent bits of clipboard content, letting you paste any of them at any time. CmdVees' menu-bar menu displays any snippet of text you copy or cut, using either the standard Edit-menu commands or keyboard shortcuts, adding the newest at the top. You can paste any snippet by choosing it from the menu or by using CmdVees' own keyboard shortcut for Paste. But what makes CmdVees unique is that when you paste a saved snippet, it's removed from the menu. This means that if, for example, you copy five bits of text, you can paste all five sequentially by simply pressing the Paste shortcut five times.

CmdVees also provides a feature that can swap selected text in a document with the first item in the menu, and the program's Join feature concatenates all the items in the menu—essentially everything in your history—and pastes them as a single snippet.

🍎🍎🍎½; \$1; Wuonm; macworld.com/7227

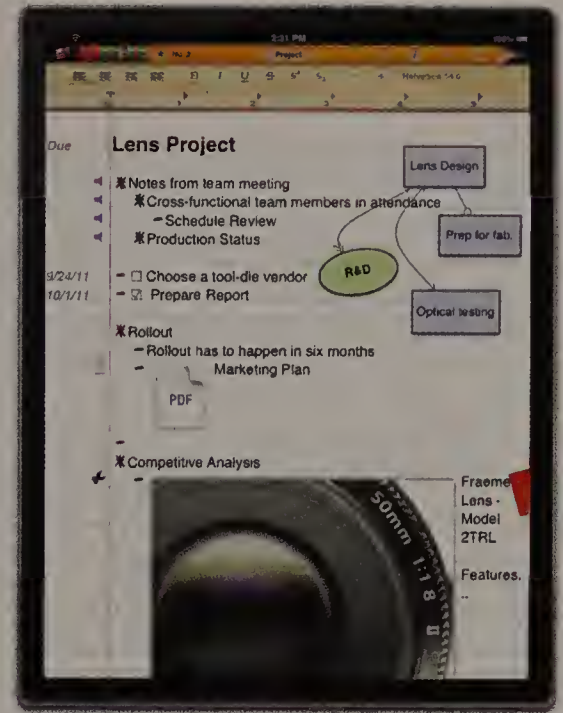


Palua 1.0

UTILITIES Apple's current keyboards can use the function keys (F1 through F12) for alternate functions such as controlling volume, screen brightness, media playback, and Exposé. Palua is a simple utility that adds a systemwide menu for toggling between standard F-key functionality (Function Mode) and the special Apple functionality (Apple Mode)—just choose the desired mode from Palua's menu, or press Palua's keyboard shortcut (⌘-Option-Tab), to make the switch.

🍎🍎🍎½; \$1; Molowa; macworld.com/7229

An Original, Anywhere You Run It



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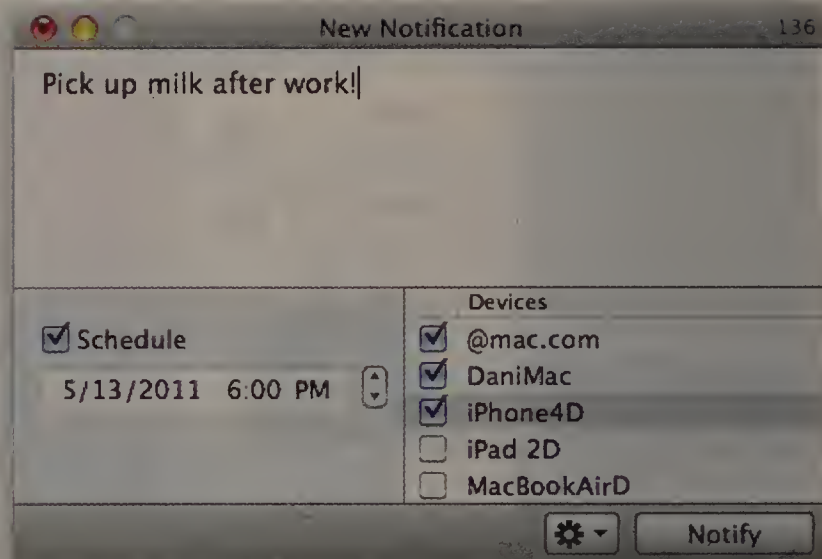


CIRCUS PONIES

Notificant 1.2

PRODUCTIVITY There are plenty of good reminder apps for the Mac, but many of us have multiple Macs, as well as iPhones and iPads—we're no longer focused on a single device all day. Notificant is a nifty combination of a \$5 Mac app, a \$3 iOS app, and a free Web service that lets you set a reminder once and have it appear everywhere. Install the app on all your devices, create a Notificant account, and log in to that account on each device, and you're ready to go.

Click the Notificant menu-bar icon and choose New Notification, and the New Notification window lets you enter a message of up to 160 characters, choose a time for the reminder to be "delivered," and—most useful—choose the devices on which the message should appear. Your e-mail address is also listed here; select it, and you'll also receive an e-mail reminder. At the chosen time, your message will appear on the screen (or in the mailbox) of each device. So no matter where you are, or which



of your computing gadgets you have with you, you're sure to get the message.

💻💻💻; \$5; Caramel Cloud; macworld.com/7230



Capster 1.6.5

UTILITIES If you've ever wanted a way to be alerted when you've accidentally activated the caps lock key, try Capster. It's my favorite solution, thanks to its use of the excellent Growl notification system (💻💻💻; macworld.com/4732). Press the caps lock key, and you see an on-screen notification; disable caps lock, and you get a Growl confirmation of that, too. You can choose separate Growl-notification options (display style, priority level, and alert sound) for when you enable caps lock and when you disable it, and Capster also offers a menu-bar icon that changes to reflect the current caps-lock status.

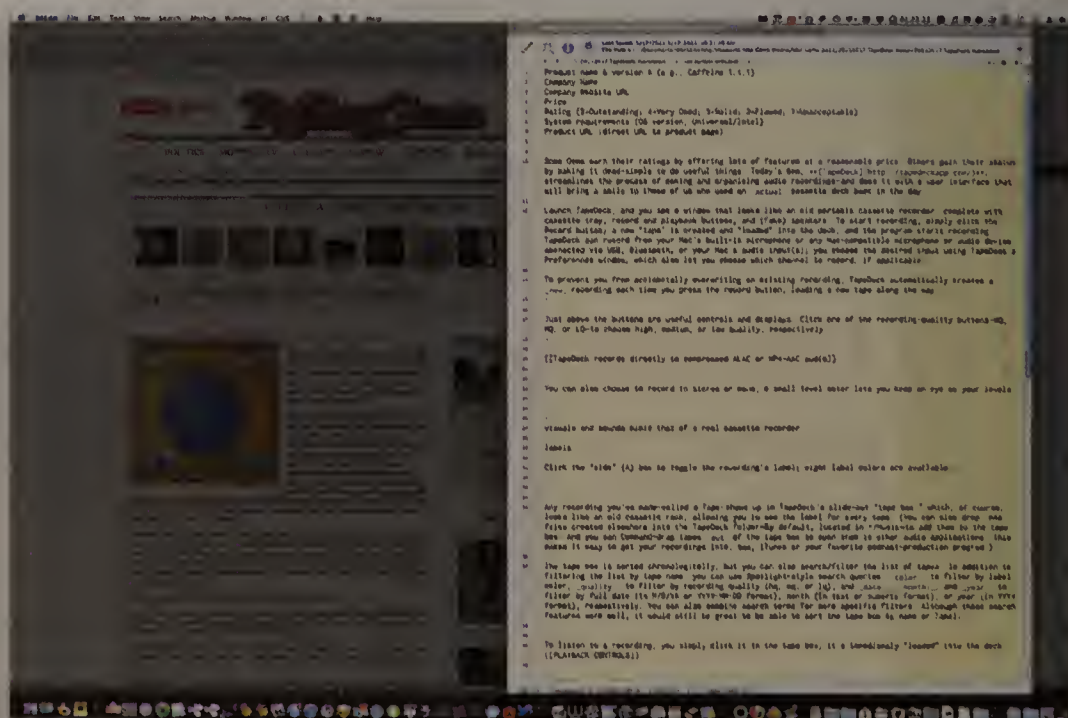
💻💻💻; free; Vasileios Georgitzikis; macworld.com/7225

Isolator 4.4

PRODUCTIVITY It's easy to get distracted when sitting at your Mac; sometimes you could use a little help focusing. Isolator dims—or *tints*, in Isolator's nomenclature—everything but the frontmost application, the Dock, and the menu bar to help you focus on the active program. Switch to another application, and that application is immediately displayed at full brightness, with other programs faded to the back. You can adjust Isolator's tint color and level, from very faint to completely opaque, and you can choose the duration of the fade action.

If you find partially tinted background items to still be too distracting, Isolator offers some nifty visual filters you can apply to its tint later. You can also set Isolator to disable its fading when the Finder is the active application; this lets you view the desktop when the Finder is frontmost.

Toggling Isolator—if, for example, you want to temporarily view everything at full brightness—is as easy as clicking its menu-bar icon or pressing its keyboard shortcut. 💻💻💻; payment requested; Ben Willmore; macworld.com/7226



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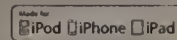
i am a networking genius.

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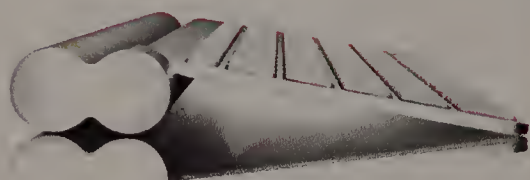


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Macworld **HOT STUFF**

What We're Raving
about This Month



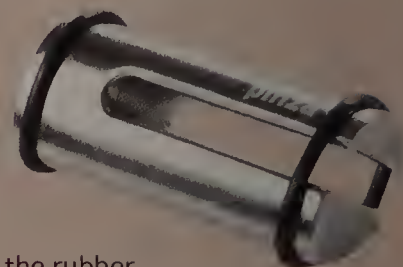
The Magic Bar

Mobee hopes to amaze and delight owners of Apple's Wireless Keyboard and Magic Trackpad with its Magic Bar (\$60) inductive charging device. The Magic Bar comes with a cylindrical battery pack that replaces the AA batteries used by the Wireless Keyboard and Magic Trackpad. You can charge and recharge the battery pack by simply sliding the aforementioned Apple devices into the inductive charging bay, which is made of aluminum and designed to visually match Apple's peripherals. The Magic Bar can work its charging charms via either the USB port on an iMac or a powered USB hub (but not through, say, the USB port on a wired Apple keyboard, which doesn't supply enough juice). It needs only about 250 milliamps to charge a battery pack; Apple's portable USB iPhone charger or iPad charger could do the trick. The Magic Bar's inductive charging process takes about six to eight hours to completely fill a battery pack. Mobee includes one battery pack, so if you want to charge Apple's keyboard and trackpad, you'll need to grab a second pack for \$30. Mobee says that the battery pack is rated at 500 cycles. A one-year warranty is included (mobeetechnology.com).—**DAVID CHARTIER**

Pinza Cord Holders

It's a hassle to stop all your cables from falling behind your desk when you unplug them. Bright Light Ventures' Pinza Cord Holders aim to prevent lost cables. Each Pinza is cast from a solid piece of stainless steel and hand-polished.

Slide your cables into the Pinza's groove and apply the rubber O-rings (which also protect your desk), and your cables won't be going anywhere. Also, the Pinza rocks forward to let you pull extra slack, and then rocks back to "lock" cables in place—a clever design touch. The Small Pinza (\$12) accommodates up to two cables; the Large Pinza (\$16) can handle three or four cables, depending on the thickness (www.pinzacord.com).—**DAN FRAKES**



Rubernet

Conceited Software's €30 (about \$44) network-traffic monitoring tool offers a real-time look at what software is currently sending data up or down over your network connection; it also stores the bandwidth-usage history for each app. Rubernet requires that you install a daemon on your Mac that runs silently in the background, observing all the network activity. The software also lets you install the daemon on other networked Macs, so that you can monitor those machines' network activity, too. Should you decide that you no longer want to monitor a machine's network activity, Rubernet makes it painless to uninstall the daemon from inside the app (rubernetapp.com).—**LEX FRIEDMAN**



MainMenu Pro 3

Incredible Bee's \$19 MainMenu Pro, a maintenance program, helps Mac users clean up and optimize their computers. Version 3 has a new overlay menu that allows for quick access to your most-performed maintenance tasks, along with a new customization feature that allows you to group several tasks together—and choose to automatically shut down or restart the Mac. Other features include the option to run daily, weekly, and monthly maintenance scripts; the ability to rebuild your Mac's Spotlight index; and the power to clean logs, flush the DNS preferences, and disable your Mac's Dashboard (mainmenuapp.com).—**JOEL MATHIS**



STORADRIVE AND MEDIA STORAGE TRAY

More and more people are using bare hard drives, which can be swapped in and out of a USB or FireWire drive dock. But where do you store those drives? How about in a stack of NewerTech's StoraDrives (\$15 for two stackable cases), each of which is made of antistatic plastic and holds a 3.5-inch drive. If you've got 2.5-inch drives and media cards, the \$8 Media Storage Tray fills one StoraDrive with an antistatic-foam organizer that holds one 2.5-inch drive and up to 12 media cards: four SD, four SmartMedia, and two CompactFlash cards, along with two Memory Sticks (www.newertech.com).—**DAN FRAKES**



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Ten for 5: iOS Changes of Note

From better notifications to app improvements, there's plenty to like about iOS 5

BY LEX FRIEDMAN

Any iOS users who have ever griped about notifications, groused about the mobile operating system's built-in task management capabilities, or balked at needing a computer to sync up their iPhone or iPad have plenty to look forward to this fall. That's when Apple plans to release iOS 5, a major update that seems designed to address the most persistent complaints about the operating system that powers the iPhone, iPod touch, and iPad.

Apple promises more than 200 new features and enhancements in iOS 5. Here are the ten that matter most:

Notifications The days of modal, one-at-a-time pop-up alerts are over. Now notifications will appear in a small, animated bar that slides down from the top of the screen. If you tap an alert, you'll go directly to the app that sent it; otherwise, ignore it and it will disappear on its own.

But dismissed notifications won't go away for good. They'll be archived in a new Notification Center. Swipe downward from the top of the screen, and Notification Center will slide down to display a list,

iOS 5 seems designed to address the most persistent complaints about the OS that powers the iPhone, iPod Touch, and iPad.

sorted by app, of notifications you've received—including missed calls, voicemails, text messages, and more.

PC Free You'll be able to set up iOS 5-powered devices from a Welcome screen—no computer required. Software updates will arrive over the air, and media will sync wirelessly, meaning that you'll no longer have to go through iTunes.

The overall goal is to eliminate extra trips to the computer. To that end, in iOS 5 you'll also be able to add and delete calendars, create and delete mailboxes in Mail, and perform basic photo editing on your iOS device.

Reminders All those reminder apps in the App Store are about to get some competition. Apple's Reminders will

support multiple lists of tasks, with alerts that can be either date- or location-based. Your device can remind you about a task when you reach or leave a specific location. Reminders will also be searchable, syncing with iCal on the Mac and Outlook on Windows.

iMessage Built into the Messages app, iMessages lets you exchange texts, photos,

videos, and contacts with other iOS devices. It will also support group messaging. This isn't a replacement for SMS messages—just a new take on instant messaging, aimed solely at communication between iPhones, iPod touches, and iPads.

Safari The mobile version of Apple's Web browser will add a Reader feature similar to one in the desktop version. Reader lets you get (and share) just the content of an article, removing navigation, ads, and other extras; it also reformats that content to make it easier to read.

Safari will also get Reading List, a simple and convenient way to save a story for later perusal. Items in your Reading List get synced to Safari on all your iOS 5 devices, as well as to any computers running Mac OS X 10.7 (Lion). Tabbed browsing will make its first appearance in Safari as well, at least on the iPad.

Newsstand With more publishers offering magazines and newspapers via App Store subscriptions, the dedicated

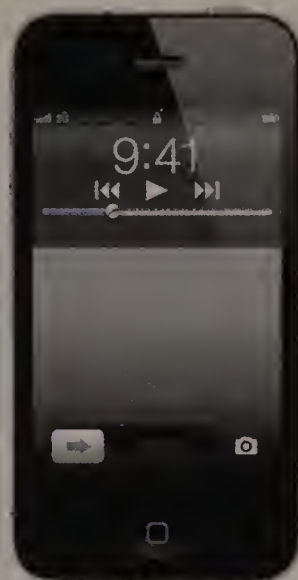


Notification Center
Accessible at any time, iOS 5's Notification Center will show alerts, organized by app and time-stamped.

Newsstand app will offer a way to download those periodicals. It supports background downloads—so issues that arrive overnight will download automatically and be waiting for you in the morning.

Twitter To make it even easier for you to tweet on the go, iOS 5 adds single-sign-on support for the Twitter microblogging service. Configure your login credentials in the Settings app, and third-party Twitter apps will be able to access your login details without requiring a separate sign-in. Several of Apple's offerings—Photos, Safari, YouTube, and Maps—will support direct Twitter integration, so you can quickly post data from those apps to your Twitter account.

Camera It'll be easier to access your iOS device's built-in camera. Double-tap the Home button from the lock screen, and you'll see a camera icon; tap that and you'll launch the Camera app. Also, you can take



Quicker Camera You'll be able to launch the Camera app from an icon on the lock screen. The Volume Up control can also double as a shutter button.

photos with the phone's Volume Up button instead of the on-screen shutter button.

The Camera app will also sport optional grid lines to help you compose photos,

pinch-to-zoom (for digital zooming), and autofocus and autoexposure locking. Also built into the app will be new editing features—specifically, crop, rotate, red-eye reduction, and iPhoto's one-click enhance.

Mail With iOS 5, Mail will finally get rich-text formatting (bold, italics, underlining), indentation options, the ability to drag addresses between address fields, support for flagging, and more. A new full-message searching feature will include searches of messages not downloaded onto the device but present on the server.

Game Center iOS 5 will usher in more improvements to the built-in Game Center service—think OS-level support for turn-based games, the ability to buy games from within Game Center, and app recommendations. Game Center is getting more social, as well, allowing you to choose your member photo, compare yourself against friends by using achievement points, see friends of friends, and get friend recommendations.

Systemwide Services A few global changes in iOS 5 will please many users. The built-in dictionary from iBooks, which lets you tap and hold to see a word's definition, will be available throughout the OS. A new iPad keyboard designed for thumb typists will be available as well.

You'll get to experience these and many more features firsthand when iOS 5 arrives in the fall. It will run on the iPhone 3GS and 4, the third- and fourth-generation iPod touch, and all iPads.

▶ iOS Devices: Current Lineup

PRODUCT	SPECS	RATING	PRICE ^A	DISPLAY	PERFORMANCE	FIND CODE ^B
iPad 2^C	16GB	Wi-Fi, ; 3G,	Wi-Fi, \$499; 3G, \$629	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	7030 Wi-Fi 7031 3G
	32GB	Wi-Fi, ; 3G,	Wi-Fi, \$599; 3G, \$729	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	7032 Wi-Fi 7033 3G
	64GB	Wi-Fi, ; 3G,	Wi-Fi, \$699; 3G, \$829	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	7034 Wi-Fi 7035 3G
iPhone 3GS and 4	8GB 3GS (AT&T)		\$99	3.5-inch color	9 hours of Wi-Fi Internet; 5 hours of 3G talk time	6255
	16GB 4 (AT&T)		\$199	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	6256
	32GB 4 (AT&T)		\$299	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	6257
	16GB 4 (Verizon)		\$199	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	6943
	32GB 4 (Verizon)		\$299	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	6944
iPod Touch	8GB		\$229	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6553
	32GB		\$299	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6554
	64GB		\$399	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6555

^A All prices are Apple's prices. ^B In a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview. ^C There are separate Wi-Fi+3G iPad 2 models for AT&T's network and for Verizon's.

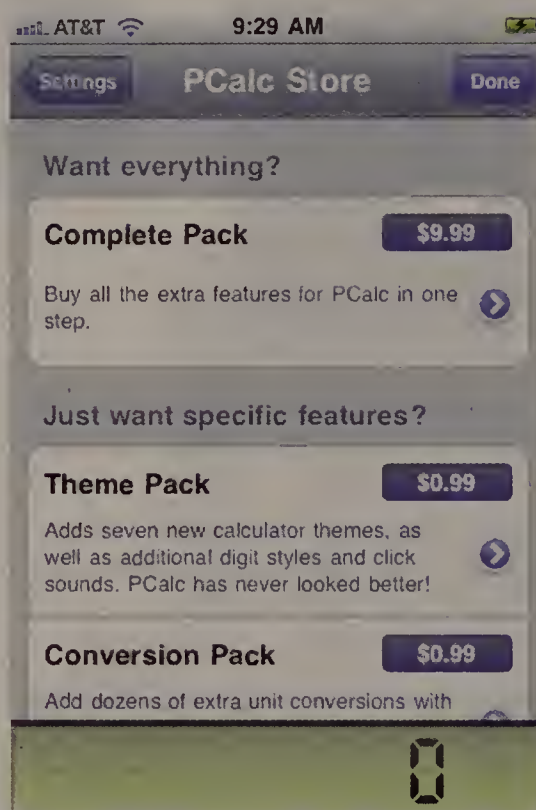
Apple Backing App Makers in Legal Fight over Patents

BY LEX FRIEDMAN

Some iOS developers find themselves in legal hot water with a company called Lodsys, which says iOS's in-app purchasing feature infringes on patents that it holds. In this case, though, Apple says that it has developers' collective backs.

In May, several developers received letters from Lodsys alleging that using an in-app purchasing mechanism in their apps infringes on four patents covering online help, subscription renewals, in-app purchasing, and interactive online advertisements.

Apple gave third-party developers the ability to build in-app purchases into their apps in 2009's iOS 3 update. And in a letter to Lodsys, Apple contends that its existing license for patents covering in-app purchases applies to iOS app makers, too. (You can read the letter at macworld.com/7276.) "There is no basis for Lodsys' infringement allegation against Apple's App Makers," Apple's senior vice president and general counsel, Bruce Sewell, says in the letter. Lodsys responded by filing suit against seven developers, alleging patent infringement.



Buying Trouble In-app purchases are at the heart of the patent claim by Lodsys.

After the latest legal maneuver by Lodsys, the next move belongs to developers and Apple. It's no overstatement to say that what happens next could impact iOS development for a very long time.



SPOTLIGHT ON IPHONE 4 CASES

Case-Mate Egg

You and I look at an egg carton, and see something that gets your eggs from the supermarket to your refrigerator in one piece; Case-Mate looks at the same carton and sees the inspiration for an iPhone 4 case. Its \$25 Egg Case (macworld.com/7262) looks like any silicone wrap that covers the back and sides of an iPhone 4—until you notice the back, which is covered with egg-carton-like bumps and dips. The idea, conceived by industrial designer Erik Arlen, is that the bumps will provide shock resistance should your iPhone 4 take a tumble. What's more, those bumps are formed out of molded dots, which give you a good grip on your iPhone 4.—PHILIP MICHAELS

What's New at the App Store



OmniOutliner Arrives on the iPad

The Omni Group delivered on a promise it made at this January's Macworld Expo when it released OmniOutliner for the iPad (macworld.com/7259), the mobile edition of its outlining and organizational application. The \$20 iPad app's tools span note-taking, spreadsheets, and even light photo organizing, letting users create documents that feature hierarchical notes, columns for processing simple equations, lists, and images pasted inline.—DAVID CHARTIER



Touch Press Shines Up Gems and Jewels

After putting an eye-catching spin on the periodic table with The Elements (macworld.com/6173), Touch Press is turning its attention to minerals in its latest book-and-app hybrid. Gems and Jewels (macworld.com/7260) is a \$14 iPad app developed with the help of the University of Chicago Press and the Field Museum of Natural History. You'll find 360-degree images of 300 sparkly stones that you can rotate, examine, and zoom in on.—LEX FRIEDMAN



Comic Life Leaps onto the iPad

After years as a Mac mainstay, the Comic Life image editor has arrived in the App Store in the form of an \$8 iPad app. Like its desktop predecessor, Comic Life for the iPad (macworld.com/7261) turns your images into something you'd see in the comics, with speech balloons, captions, and comic-style effects. The app includes ten templates and 67 fonts, and after you've assembled your photo, you can print the finished product or share it via e-mail or Facebook.—LEX FRIEDMAN



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APP GUIDE


Software for Your iPhone, iPod Touch, and iPad

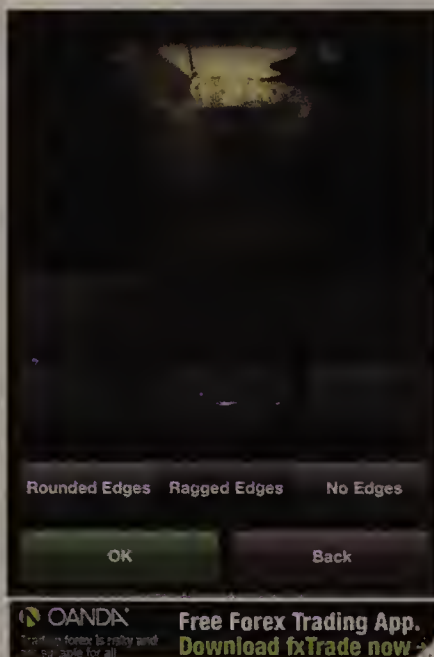
World of Goo HD 1.4

GAMES World of Goo HD is not only one of the best puzzle games for the iPad, it's also one of the best puzzle games available in all the App Store now that a recent update allows it to run on the iPhone 3GS, iPhone 4, and third- and fourth-generation iPod touches. In the game, you're tasked with assembling a cache of little goo balls into a structure that reaches a pipe, which will suck up all the unused balls—to complete a level, you need to have a specific number of goo balls left over. Things never get repetitive in World of Goo—each level presents a unique challenge, and the arresting visuals make this a must-have for iOS gamers.—**SAM FELSING**
iPhone/iPad | ; \$5; 2D Boy; macworld.com/7216



iSSH 4.6.2

UTILITIES iOS device-toting system administrators will find this remote-connection app indispensable. iSSH lets you customize the screen so that you can have a clear display when working with a command-line interface on your iPhone and iPad. An on-screen keyboard operates in three different modes, adding further flexibility.—**BRIAN BEAM**
iPad/iPhone | ; \$10; Zinger-Soft; macworld.com/7212



Old Photo Pro 1.0.3


PHOTOGRAPHY One of the many low- or no-cost image-editing offerings available in the App Store, Old Photo Pro provides a textbook example of a single-function app that executes that function to perfection. Load a photo into the app—or take one by using your iPhone's camera—and you can make some simple adjustments to brightness, contrast, tone, and color. Before you know it, the image will look like it's been folded, crumpled, and tucked into a wallet for years. A \$2 in-app purchase lets you dump the app's ads while adding support for higher-resolution images.—**JEFF PHILLIPS**
iPhone | ; free; Deion Mobile; macworld.com/7214

ESSENTIAL APPS


Favorite Physics Puzzlers

As great as World of Goo HD is, it's not the only outstanding gravity-defying iOS game (macworld.com/7224).




Enigmo  An early App Store arrival, this liquid-based puzzle game keeps adding new features.



iBlast Moki  This charming game offers nearly endless replay value.



Osmos for iPad  An iPad makeover of this relaxing yet challenging game puts the tablet's touch controls to great use.

Super Stickman Golf 1.4

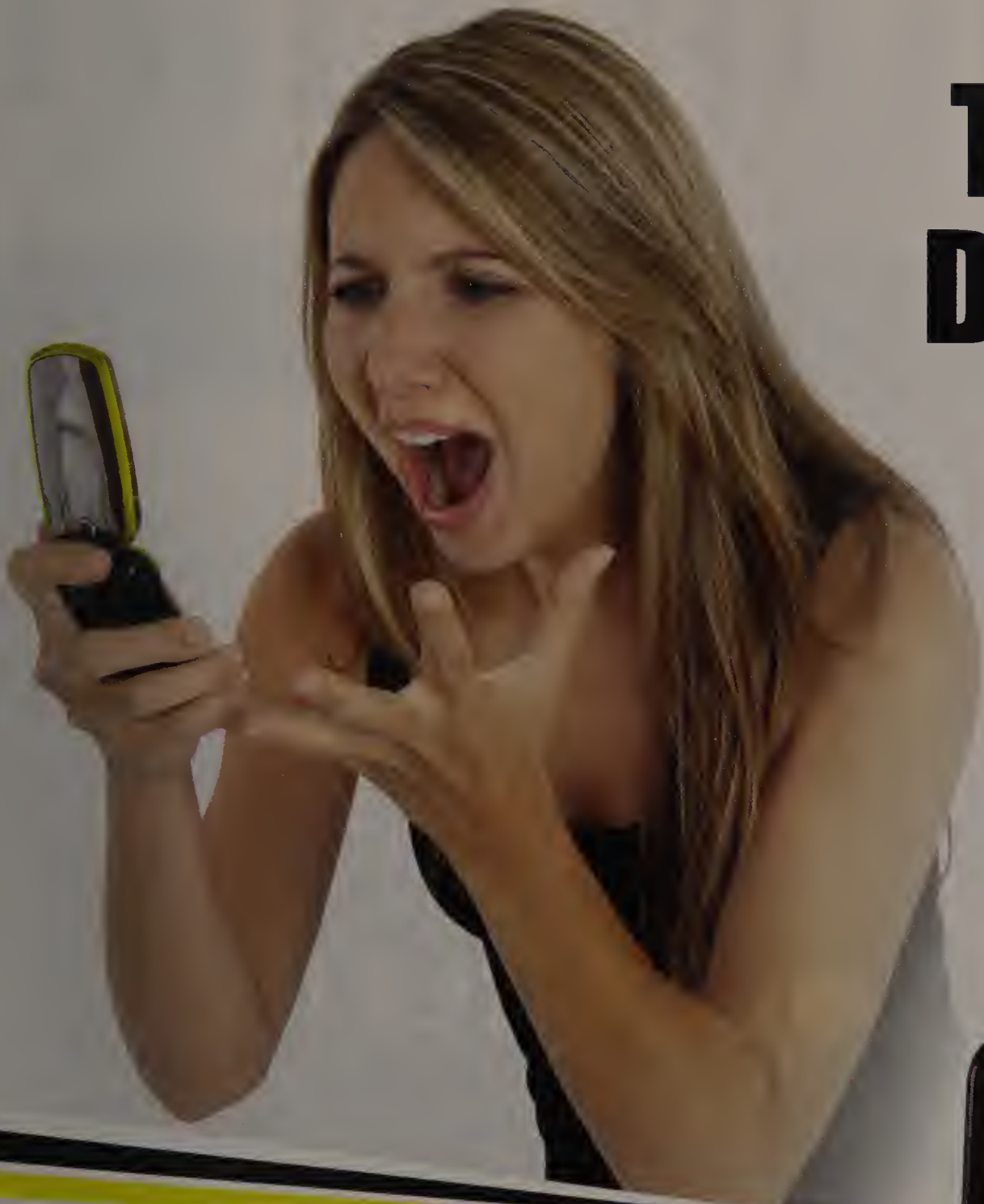
GAMES A great game got even better, thanks to multiplayer support. You challenge opponents through Bluetooth or Wi-Fi (via Apple's Game Center), racing to see who can be the first to finish any of the game's 261 physics-defying holes. Super Stickman Golf still features easy-to-learn controls, appealing physics, and a fun—though decidedly less frenetic—solo play mode.—**LEX FRIEDMAN**
iPad/iPhone | ; \$3; Noodlecake Games; macworld.com/7213



App Guide

Get more reviews, including reader reviews, as well as listings for every iOS app at AppGuide.com.





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DIY

DO IT YOURSELF!

Set up an AirPlay sound system, write a song in GarageBand, master your own e-mail domain, and more

PHOTOGRAPHY BY PETER BELANGER



There's a strong do-it-yourself streak in the Mac community. We like to set up our Macs just so, customizing our desktops, icons, and windows just the way we want them. Thanks to the vibrant developer community, we have tons of utilities that let us configure and run our Macs our way. There's a thriving traffic among Mac users in tips and tricks for tweaking their machines.

That DIY spirit extends to the stuff we do *with* our Macs (and, now, our iPads and iPhones). It's what drives the Mac community's famous creative streak, our penchant for making art, photography, movies, and music. That spirit is alive and well—and stronger than ever thanks to new tools like the iPad.

In that DIY spirit, we've put together four representative projects—from creating a personalized e-mail address and building a new boot drive to assembling a wireless music system for your home and writing and recording a song on the iPad. These are, of course, only a small sample of the kinds of projects Mac users undertake every day. But maybe they'll remind you of the kinds of creative things the Mac makes possible and inspire you to come up with one of your own.



MAKE A NEW BOOT DRIVE

Clone your Mac's old drive just in case it goes south

BY GLENN FLEISHMAN

Maybe you're running out of disk space. Or maybe you need to replace an old hard drive that's making a disturbing click-click-whirr noise. But before you can replace your Mac's boot drive, you need to clone its contents onto a new one.

STEP 1 Collect the Hardware and Software

The key to cloning is to use a *drive dock*, a device that lets you connect a raw hard disk (such as you'd install inside a computer) to your Mac. You clone your old drive to the raw drive, and then insert that new drive in your Mac. Typically, you plug the raw drive into the dock's slot the way you'd drop a

line (www.newertech.com). It comes in two versions: The Voyager S3 (\$40) has a USB 2.0/3.0 port; and the Voyager Q (\$85) adds eSATA, FireWire 400, and FireWire 800. Both accept a 2.5-inch or 3.5-inch Serial ATA (SATA) drive.

You'll also need a cable to connect the dock to your Mac. Docks come with a variety of connectors; make sure you have the right cable for connecting at the highest speed possible. For the Voyager S3, USB 2.0 is as fast as you can go (unless you want to add USB 3.0 to your Mac via an add-in card). FireWire 800 may be your best bet on most Macs.

For the raw drive itself, you have a huge number of choices. Your starting

2TB drive is \$200, I'd argue that the 1TB is the best deal (assuming it meets your storage needs). But if a 1TB drive is \$70, a 1.5TB is \$100, and a 2TB is \$150, the 1.5TB drive might be more sensible.

Finally, you need cloning software. Two programs are standard: Carbon Copy Cloner (🔗; macworld.com/3156) and SuperDuper (🔗; macworld.com/7278). Both have free versions that can clone disks, but Carbon Copy Cloner requests payment, and the \$28 version of SuperDuper adds the ability to perform scheduled and incremental copies.

STEP 2 Make Your Clone

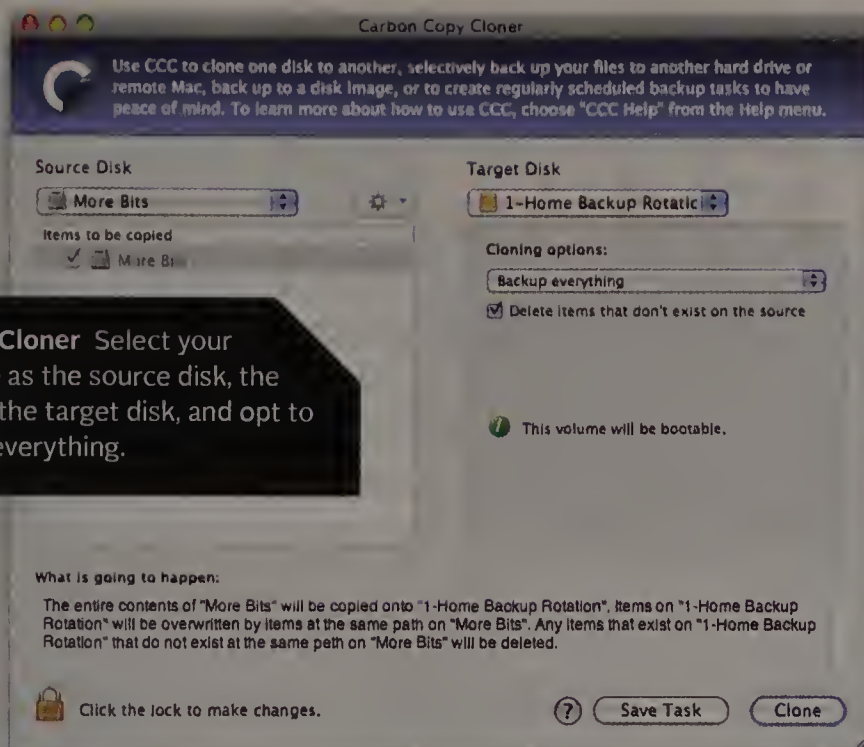
First, back up your current internal drive. That done, connect your dock to a power source and to your Mac, and insert the replacement drive into it. Use Disk Utility (in /Applications/Utilities) to format the drive. When the formatting is complete, click on the Partition tab in that same app. Check to make sure the current partitioning scheme is the right type for your system. Finally, click on the Options button. For an Intel Mac, make sure that GUID Partition Table is selected. For a PowerPC Mac, choose

A drive dock lets you connect a raw hard disk to your Mac.

slice of bread into a toaster; some models even have an eject lever to pop a drive back out. In addition to cloning drives, you can use a dock to make a backup of your drive, and then store that backup off-site.

While plenty of makers offer Mac-compatible docks, I like NewerTech's Voyager

parameter is a 2.5-inch SATA drive for a laptop or Mac mini, or a 3.5-inch SATA drive for all other Macs. My rule of thumb: Look for the sweet spot before which the price-per-gigabyte (or per-terabyte) starts going up. So if a 1TB drive is \$70, a 1.5TB drive is \$130, and a



Carbon Copy Cloner Select your old boot drive as the source disk, the new one as the target disk, and opt to back up everything.

Apple Partition Map. Click on OK and then on Apply.

Now launch your cloning app. In Carbon Copy Cloner, choose your internal drive in the Source Disk pop-up menu, and the replacement disk in the Target Disk menu. Make sure Backup Everything is selected from the Cloning Options pop-up menu. A green icon should appear in the Target Disk column next to a label reading, "This volume will be bootable." Click Clone. If you're using SuperDuper, select the internal drive in the Copy menu and the replacement drive in the To menu on the right. Select Backup - All Files from the Using menu. Click Copy Now.

STEP 3 Test the Clone

When the cloning is complete, open System Preferences, click on Startup Disk, and select your replacement drive. Click Restart. If your system boots up correctly, you have a good clone.

Here's where you might spot the weakness in this process: If you see two drives, with the same contents, the same icon, and the same name, how can you tell the clone from the original?

The easiest way to do so is to change the original disk's name before you restart your Mac (add **_old** to its name in the Finder). Alternatively, give the two disks distinct icons: Find an icon you like and copy it to the Clipboard. Select the drive in the Finder, choose File ► Get Info, click on

the icon in the floating window, and press ⌘-V. In either case, after the restart, make sure the correct name or icon appears at the very top on the desktop (where a hard-drive icon usually appears).

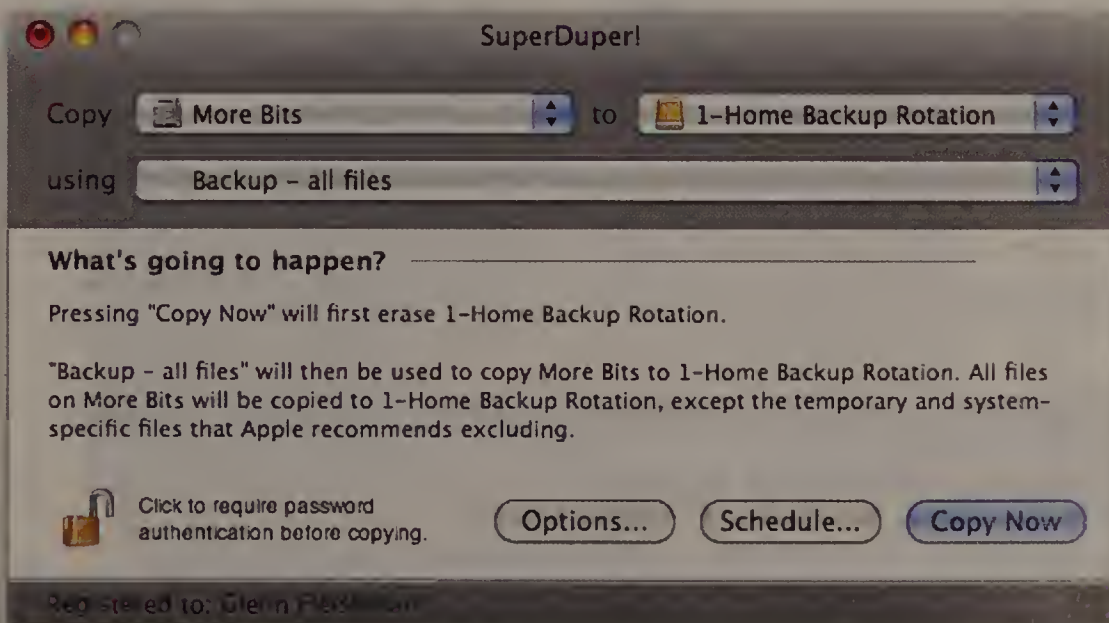
If your computer didn't boot correctly from your clone, check in the Startup Disk preference pane to see what's selected there. If the cloned drive isn't selected, try selecting it again and restarting. You can also try holding down the Option key at startup; that should produce a list of bootable volumes. If the replacement drive isn't among them, run Disk Utility and repair that drive.

STEP 4 Install the Clone

Assuming your clone works, shut down your Mac and swap in the replacement drive as your new internal drive. (We can't provide instructions on how to do that for every kind of Mac, but you can find help on Apple.com or iFixit.com.) Your Mac should automatically boot from the new internal drive; it may take longer than usual, since your Mac must sort out which drives are available. If you get a flashing question mark, shut down, make sure cables are connected properly, and try the Option-key startup method described in step 3. You can also boot from an OS X installation DVD and run Disk Utility to make sure the drive is OK.

If it all works as it should, you'll now have two distinct backups of your new live replacement drive: the one you made before cloning and the one of the original internal drive. Keep those on hand in case something goes wrong with the new drive. That's most likely to happen within the first few weeks of operation. If you have a failure and you've kept cloning or backing up regularly, you can put your original drive back in your Mac, or use the dock to boot it externally.

Senior Contributor **Glenn Fleishman** is the author of *Take Control of iPhone and iPod Touch Networking and Security*, iOS 4 edition (TidBits Publishing, 2010).



SuperDuper! Choose your original boot drive from the Copy drop-down menu, your new drive from the To menu, and Backup - All Files from the Using menu.

BUILD AN AIRPLAY AUDIO SYSTEM

Play music wirelessly from your Mac, iPhone, iPad, and iPod

BY DAN FRAKES



Apple's AirPlay technology lets you wirelessly stream audio (and video) from your Mac, iPhone, iPad, or iPod touch to any AirPlay-enabled devices around your house. When streaming from iTunes (or from other Mac apps via Airfoil [★★★★; macworld.com/7142]), you can stream to multiple devices at the same time. That means you can build a whole-home audio system for a fraction of what dedicated systems might cost you.

The only problem is that, even though AirPlay debuted back in November 2010, few audio systems with integrated AirPlay

STEP 1A Set up the Hardware (Existing Speakers)

If you already have a stereo system, either computer or powered speakers, or an iPod/iPhone speaker dock with an auxiliary-input jack, all you need to set up AirPlay is an AirPort Express base station (★★★★; \$99; macworld.com/3509; for analog or digital audio connections) or an Apple TV (★★★★; \$99; macworld.com/7294; digital only), along with an audio cable. Once you've configured the AirPort Express or Apple TV to receive AirPlay streaming (see "Step 2: Enable AirPlay"), setup is easy.

you have a speaker system (or, more likely, a home-theater receiver or a dedicated digital-to-analog converter [DAC]) with an optical-digital audio input, you run an optical cable from the audio-output jack on the Apple TV or AirPort Express to an optical input on your audio system. The Apple TV requires a standard TosLink connector; the AirPort Express uses Mini-TosLink.

You can control volume by using the audio system's own volume control, or you can set it at a comfortable level and then use iTunes or your iOS device to adjust the volume level.

Once you're set up, streaming audio via AirPlay is easy.

support have been released. (Bowers & Wilkins's Zeppelin Air [★★★★; \$600; see *Playlist*, page 66] is one of those few.) So if you want to stream music around your house via AirPlay, you might want to assemble your own system. Here's how.

If your speakers have analog input, you run a standard analog cable—with a 1/8-inch stereo miniplug on one end and either a miniplug or left/right RCA plugs on the other—from the AirPort Express's audio-out jack to the speakers' input. If

STEP 1B Set Up the Hardware (New Audio System)

If you don't want to use your existing audio system, you can put together one specifically for AirPlay pretty simply. For example, you could buy a compact, low-power amplifier, a good set of bookshelf speakers, and an AirPort Express. This route has the advantage of being small and inconspicuous, while



AirPort Express Apple's compact network adapter has its own audio connector, which can handle analog or digital connections.

providing better sound quality than computer or docking speakers. Depending on your components, it can also be surprisingly inexpensive.

Your amplifier options are numerous. I recommend a Class T amp, which will generally give you 10 to 50 watts of efficient power in a tiny package. Amphony's 200 microFidelity Mini Amplifier (\$69; amphony.com) and Dayton Audio's DTA-100a (\$130; macworld.com/7280) are both solid choices. If you want a step up in quality, I'd recommend the Audioengine N22 (\$199; macworld.com/7281).

For speakers, if you're on a budget, consider Dayton Audio's BR-1CAB (\$55 a pair; macworld.com/7282) or Energy's CB-5 Bookshelf Speakers (\$180; macworld.com/7283). For a big step up in quality, there's Paradigm's Atom Monitor (one pair, \$250; macworld.com/7284) and PSB's Alpha B1 (one pair, \$279; macworld.com/7295).

To set it up, use standard speaker cable to connect the speakers to your amplifier and then connect your AirPort Express to the amplifier as described earlier.

STEP 1C Set Up the Hardware (the In-Between Route)

If you don't want the hassle of a separate amplifier and speakers, there's one other option: self-powered speakers. One of my favorite AirPlay systems is an AirPort Express paired with Audioengine's A5

powered speakers (\$349; bamboo model, \$449; audioengineusa.com); they sound shockingly good and are beautifully designed. The AC-power outlet on the back can host an AirPort Express, too. Just run a short cable between the Express and the A5's audio-input jack, and you're ready to go.

STEP 2 Enable AirPlay

To stream audio to an AirPort Express or an Apple TV, you must connect it to your network and then enable AirPlay on it. On an Apple TV (second-generation only), go to the Settings menu, choose AirPlay, and make sure the AirPlay option is set to On. For an AirPort Express, you must launch

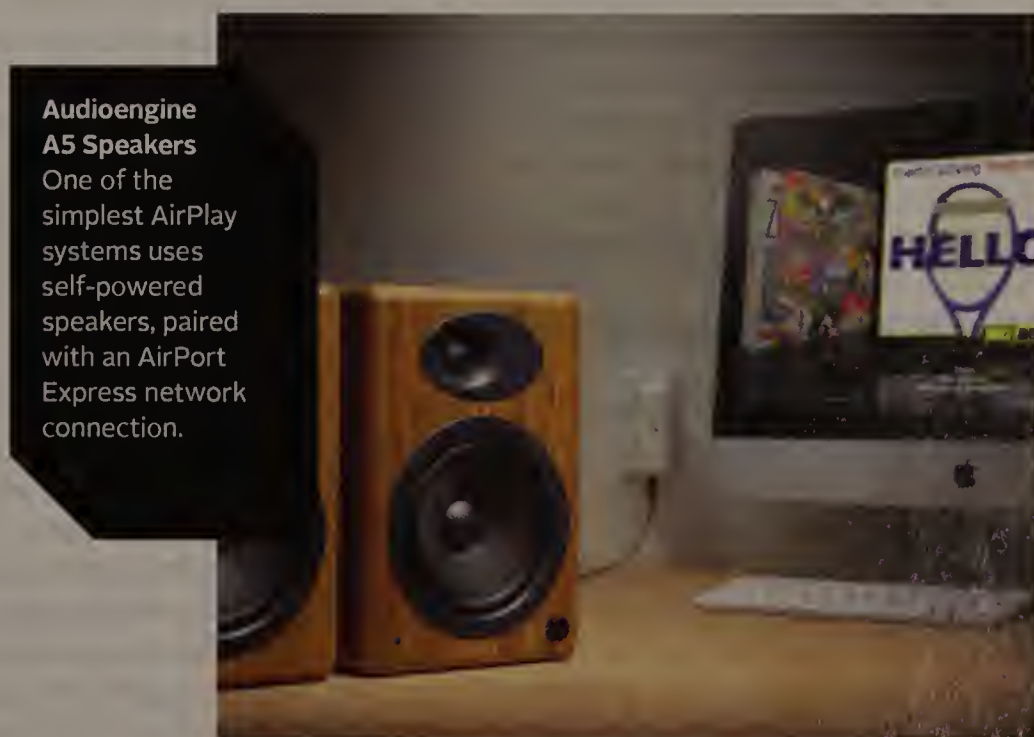
AirPort Utility (in /Applications/Utilities), choose the AirPort Express, and then click Manual Setup. Click the Music icon in the toolbar, and then check the box next to Enable iTunes. You can also rename the AirPort Express here.

On either unit, you can opt to set an AirPlay password so that anyone who wants to stream audio to the Apple TV or AirPort Express must provide that password. If your Apple TV or AirPort Express is in a public area—or even an apartment building or condo, where neighbors might be tempted to hijack it—setting a password is a wise idea.

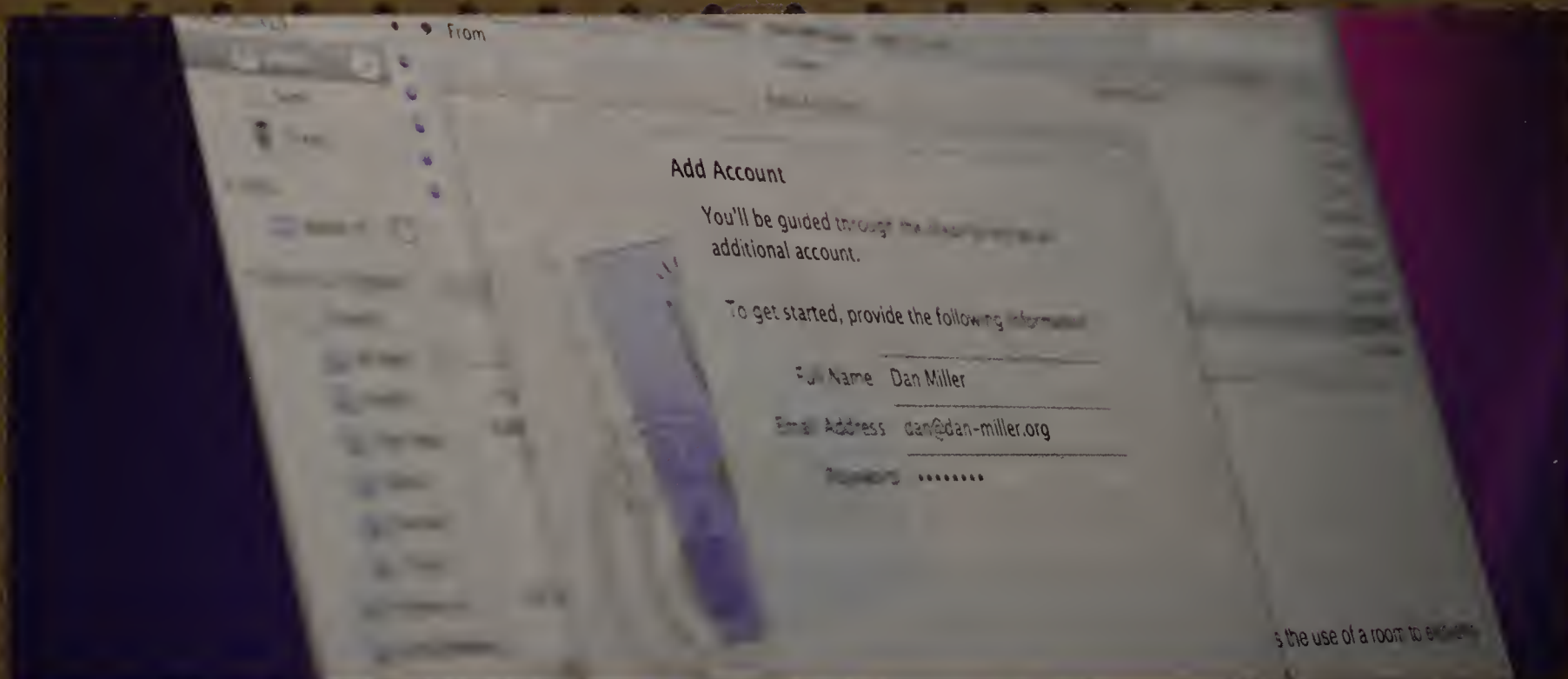
STEP 3 Let the Music Play

Once you're all set up, streaming audio to your new system is easy. In iTunes, you click the AirPlay button (formerly the Speakers pop-up menu) in the lower-right corner of the iTunes window, and then choose the AirPort Express or Apple TV as the destination. (To send audio to multiple AirPlay destinations, choose Multiple Speakers.) In an AirPlay-enabled iOS app, you just click the AirPlay button and choose the destination. Turn on your audio system, make sure it's set to the correct input (if it has more than one input, that is), and sit back and enjoy the magic of wireless audio.

Dan Frakes is a senior editor at Macworld.



Audioengine A5 Speakers One of the simplest AirPlay systems uses self-powered speakers, paired with an AirPort Express network connection.



SET UP YOUR OWN E-MAIL DOMAIN

Keep the same e-mail address, no matter which ISP you use

BY KIRK MCELHEARN

There are two good reasons for setting up your own e-mail domain. First, you won't have to change your e-mail address when you change ISPs. Instead of having the e-mail address *you@isp.com*, your address can always be *you@you.com*. The second reason is that it's good marketing: An address like *you4923@isp.com* doesn't differentiate you from all the other people who might share your name and your

the .com top-level domain (TLD). But other TLDs—.net, .org, .info, and so forth—may be available. Unless you have an uncommon name, like me, you'll probably have to settle for something other than .com.

You can be creative about it. My editor, Dan Miller, might want a .com address, but *millier.com* is already registered; *millier.org* and *millier.net* are taken too, as is *dan-miller.com*. But

You can think even more creatively than that. For example, the TLD .er is the country code for Eritrea. Why not choose the domain *mill.er*, and use the e-mail address *dan@mill.er*? (Not many registrars offer domain names for different countries, so you'll have to search to find some of the less common domains.)

STEP 2 Register the Name

Registering a domain simply means that a company has recorded that you own that domain and has added it to a database that maps domain names to numerical IP addresses via DNS (distributed name service).

Two kinds of companies will do that for you: domain-name registrars, whose core tasks are to provide domain names and to link those names to the actual IP addresses where they are hosted; and hosting companies, which offer domain names as part of an overall hosting program. In most cases, the easiest option is to use a hosting company. For a limited

Your online identity will always be yours, not your ISP's.

ISP. A personalized e-mail address is more recognizable and memorable.

Best of all, a personalized e-mail domain is really easy to set up.

STEP 1 Find a Name

One of the problems with registering a domain name is that nearly all the good ones are taken, especially for those with

dan-miller.net; *dan-miller.org*, and *dan-miller.us* are available.

When you check the availability of a domain name, most registrars and hosting companies will suggest alternatives; for example, a search for *millier.com* gave me *my-miller.co*, *millier-site.co*, and so on. Dan could use *danmiller.net*, or even *danmiller.com*.

fee—as low as about \$5 a month—you get a domain name, plus e-mail accounts, Web hosting, FTP access, and more.

STEP 3 Find a Host

If you've chosen the first option above—registering your domain name with a registrar, not a hosting company—you'll now need to find the latter.

There are thousands to choose from. They all offer basic hosting services, which generally include e-mail accounts, Web servers, and FTP access. Many also offer extras like MySQL databases (useful for some blogging systems). If you're not sure which services you want, get the simplest package and upgrade later. Your ISP might offer a hosting service, which alleviates the hassle of shopping for one but may be more expensive than necessary.

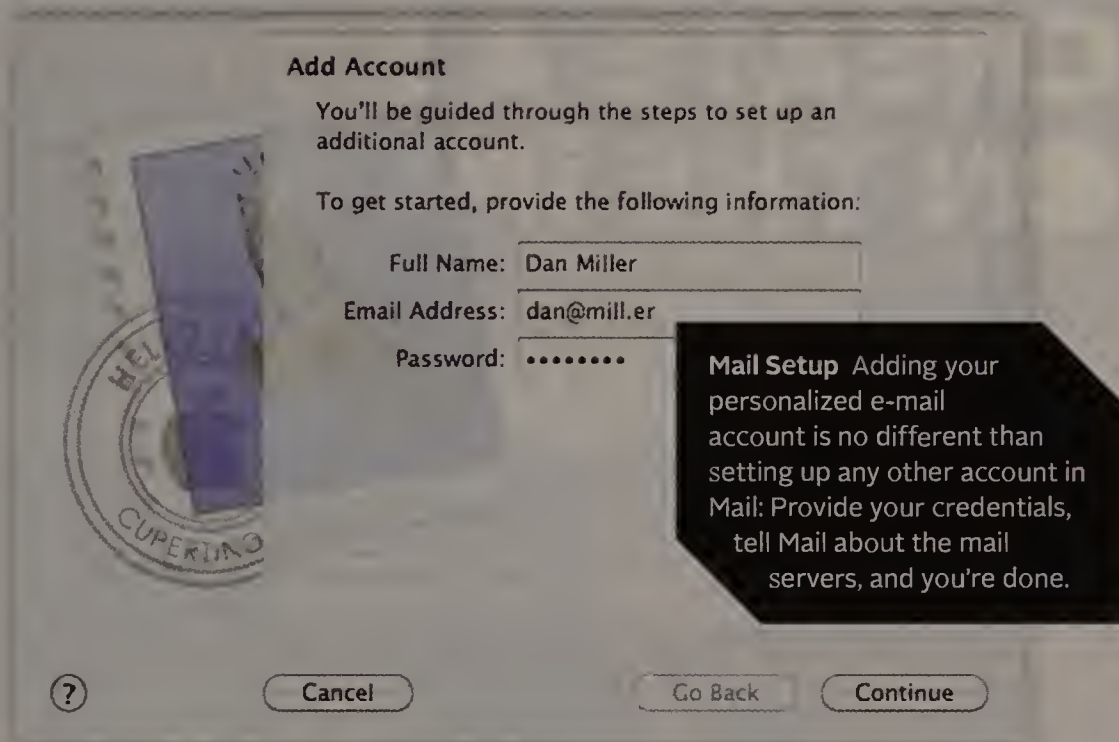
One of the best ways to find a host is to ask friends and colleagues which host they use; you'll likely get recommendations and horror stories. You can then check out the good ones to see if they offer what you need.

If you chose to register your name with a hosting company that has set up your domain name, you'll simply need to log in to the company's control panel and set up e-mail accounts. (Each host operates differently, but this is generally a simple operation.) You can set up the first

Alternative Domains

- ☐ dan-miller-nation.co
- ☐ dan-miller-family.co
- ☐ dan-miller-blog.co
- ☐ dan-miller-site.co
- ☐ dan-miller-law.co
- ☐ dan-miller-land.co
- ☐ dan-miller-web.co

Consider the Alternatives If the name you want to register is taken, most registrars will suggest others.



account, and then add others for family members; you might even want to create special e-mail accounts to use on Websites, forums, or other locations so that you don't spread around your main e-mail address.

STEP 4 Configuring E-mail

Once you've set up your personalized e-mail address, adding it to your e-mail program is easy. In Mail, choose File ► Add Account, and follow the instructions in the assistant that appears. Your hosting company's control panel will provide the details you need to enter, and in some cases will even offer walk-throughs with screenshots to help you. You may not want to go this route, however; you may want to access your e-mail only on the Web. In this case, again, your host will have the necessary information for you to do that on its Website, and you'll be able to log in to the appropriate page from anywhere. Once this is done, you can start sending and receiving e-mail with your new address.

If you use Gmail, you can have it fetch messages from *you@you.com*, too, in addition to handling the mail sent to your regular Gmail address. To do so, go to your Gmail account, click on the gear icon at the top right of the window, and choose Settings. Click on the Accounts And Import tab, and look for Check Mail Using POP3. Click Add POP3 Email Account and enter the appropriate

account information. This method can be useful if you find Gmail's Web interface better than that of your host (which is often the case). And, you can even have your e-mail client get mail from Gmail, thereby routing your new e-mail account into your existing Gmail account, if you have one.

You could, in fact, have Google manage your domain entirely; this can be a good option if you want to set up accounts for your family or small business. If you set up a Google Apps account, the search giant will take care of registering and hosting your domain. (It hands the registration off to partners such as GoDaddy.) It then provides you with e-mail, calendaring, Google Docs, and more. If you already have a domain name, Google can still host it, but it'll require a bit more manual setup; this is not a task for novices.

Creating your own personal domain is simple, as long as you can find a name that works for you. It's affordable, and it gives you a flexible way to use different e-mail addresses and even give e-mail accounts to your family. And, with your own domain, your Internet identity will always be your own, not your ISP's.

Senior Contributor **Kirk McElhearn** writes about more than just Macs on his blog, Kirkville (www.mcelhearn.com). His latest book is *Take Control of iTunes 10: The FAQ* (TidBits Publishing, 2010).

CREATE A SONG ON THE iPad

Can the GarageBand app really do it all?

BY LEX FRIEDMAN



Before I had kids, I loved to make music on my Mac with GarageBand. Once those children arrived, such whims went by the wayside. Then Apple released GarageBand for the iPad. With a portable tool like that, could I make music again? Could I record an entire song using nothing but the tablet and that app? Given the circumstances, I chose to write something my kids might like. I called it “The Barnyard Dance.”

STEP 1 Lay the Foundation

After launching GarageBand on my iPad, I tap My Songs in the upper left corner and then the plus-sign (+) button at the bottom, and select New Song. GarageBand prompts me to pick my first instrument.

I decide to start with the song's chord progression, using the Smart Guitar instrument: That way, I can quickly lay down a temporary track to form the overall song's structure; I can replace or delete it later.

By default, each new song is set at the tempo of 110 beats per minute. My song

needs more pep, so I tap the settings icon (a wrench) in the upper right corner. I could set a new tempo by selecting the number of beats per minute. Instead, I tap the beat I want on the iPad's screen and let GarageBand calculate it (200 bpm). All new songs also default to C-major; I pick E-major—on a whim. Switching back to the guitar, I choose Acoustic; I'm going for a folksy, kid-friendly feel.

It's finally time to make some music. I choose one of the four Autoplay rhythms, but add a twist: You can alter those rhythms by tapping with two or three fingers on a chord, instead of just one. When I'm done recording, I quantize the freshly recorded part (via the Mixer button) to quarter-note triplets. It sounds like an Irish jig—perfect for this song.

STEP 2 Add Instruments

Bass comes next. Choosing the Smart Bass instrument, I find it's already set to the right key. I select one of the Autoplay rhythms and follow along with the chord

progression I just constructed. As with Smart Guitar, I alter the bass lines by tapping the screen with multiple fingers.

But even then, I can't get a bass line I like. So I dig out the small USB keyboard I bought years ago to use with GarageBand on my Mac. Using Apple's iPad Camera Connection Kit, I can plug the keyboard into the iPad and use it to control GarageBand instruments. With the keyboard, I finally get a bass part I like.

I follow the same procedure to add some Roots Rock guitar lead and a Grand Piano part (using the regular Keyboard instrument).

STEP 3 Hit the Drums

At first, I decide to use the virtual Drums instrument. It offers three traditional kits and three drum machines. The latter would be too mechanical; I focus on the kits. The interface for each one shows a bass drum, snare, toms, hi-hat, crash cymbal, and ride cymbal; you play each one by tapping it with your fingertips.



Drums The Drums instrument lets you play three different kits; the app combines percussion tracks, so you can play one drum at a time.

Unfortunately, my tap-drummed beat lacks polish. One big reason is the volume. The instrument is touch-sensitive; tap hard and the drum plays louder. But it's inconsistent. My snare is too quiet at times; at others, the crash cymbal is way too loud. So I delete that initial Drums track (by tapping the instrument icon on the left side of the timeline, and tapping again and selecting Delete) and opt for Smart Drums instead.

While it offers the same kits and machines as the Drums instrument, the Smart Drums interface is more drag-and-drop: To create a beat, you drag the drum you want onto an 8 by 8 grid; the x-axis is Complexity, the y-axis is Volume. GarageBand creates the appropriate rhythm pattern for the intersection you choose.

Smart Drums are easy to tweak as you record; you can move the drum sounds in real time to update the rhythm. That makes it a cinch to, say, add a cymbal part during the chorus and remove it during the verse. After five minutes of tinkering, my song has a great beat.

STEP 4 Take a Sample

Because this is a song about barnyard animals, I want it to have a chorus of moos. To accomplish that, I use GarageBand's Sampler. With it, you can record sounds that you can then play, in appropriate pitches, on a keyboard.

I open the Sampler and tap the big red Start button. GarageBand begins record-

ing, and I let rip with my best moo into the iPad's built-in mic. Once I'm happy with my sample, I play and record the moo chorus just as I would any other keyboard track (again, using my USB keyboard).

The Sampler's one drawback is that you're limited to one sample per track. If I wanted to add some pig noises to the same track, GarageBand would replace my moos with oinks. Because a GarageBand song can have only eight tracks on the iPad, I don't have room for a full barnyard.

STEP 5 Sing a Song

You'll want something better than the iPad's built-in mic when you sing. Again I

turn to Apple's Camera Connection Kit, this time to plug in my Blue Snowball USB mic. I use a pop filter (to protect from plosives), and I record in a quiet room. I also make sure I use headphones that don't bleed sound: I don't want the microphone picking up my backing tracks.

Headphones plugged in, I pick the Audio Recorder option. I tap the cable icon in the upper left and turn on Monitor (so I can hear myself during recording). I might also turn up the Noise Gate if the mic is picking up room noise. During recording, I monitor my levels with the VU meter; my goal is to keep out of the red. I add the lead vocal and, on another track, harmonies.

STEP 6 Mix It Down

Mixing in GarageBand on the iPad means adjusting levels (how loud each track is) and track panning (where tracks are in the stereo space).

That first one is easy. By default, GarageBand's timeline displays icons for your instruments on the left. By swiping to the right on one of them, you can see (and adjust) levels for that instrument; you can also toggle the Mute and Solo options. Panning is trickier. You need to tap each track, then the Levels icon, and finally adjust a vague panning slider.

Because the Acoustic Guitar is the main instrument, I want to put it in stereo. To do that, I select the whole track (by tapping once on the guitar icon), then I tap on one



Mixing In the iPad app, you can adjust volume levels and panning settings for each instrument; too bad you're limited to eight tracks.



Smart Guitar
With Autoplay on, you can get different rhythms by tapping the chords with one, two, or three fingers.

of the selected sections within the track again, and choose Copy. Last, I tap on the guitar icon once more to select Duplicate.

But wait! There's no Duplicate option—

only Delete, because I've hit the eight-track limit in the iPad version of GarageBand.

Sadly, I delete my harmony vocals to make room for my second acoustic guitar. I then

tap inside the main guitar track and choose Paste to duplicate it. I pan the first version 75 percent left, and the second 75 percent right. Then I zoom in as far as GarageBand allows (by reverse-pinch) and nudge the second acoustic track a bit; that creates the stereo effect I want.

STEP 7 Finish on the Mac

I give my song a listen—and I'm still not satisfied. The song needs more mixing, more harmony, and more EQ on the vocal tracks. And I know the software to do it: GarageBand on my Mac.

I tap on My Songs at the upper left of GarageBand on my iPad and on the Send To icon below my file; then I tap to send the song to iTunes. I connect my iPad to my Mac and drag my song from iTunes to the desktop. I then double-click it to launch GarageBand '11.

GarageBand imports it flawlessly, maintaining the volume levels and panning,

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GarageBand for Mac The desktop mixing tools are much better than the iPad's.

and applying effects consistently. With the iPad's eight-track limit a mere memory, I can re-record those lost harmonies, and I can plug my USB keyboard into my Mac

and add more moos. I tweak the EQ on my vocals, sequence some panning and volume levels, and polish things up. The only downside to processing the piece on

my Mac is that I can't import it back into GarageBand on my iPad.

STEP 8 Play It

At breakfast the next day, I play the final product for my kids. Liam, our newborn, doesn't have much of a reaction. But Anya (age 4) and Sierra (2) are pleased. "Play the Moo song again, Daddy," Sierra says. Anya's feedback is even better: "Daddy, that song made me want to dance!"

Was I able to record my song entirely on the iPad? Not quite. But the song probably wouldn't exist at all if I hadn't been able to make it on the tablet. And I think it would have been worse if I'd done it on my Mac. Getting started is the toughest part of music-making for me, and Smart Instruments makes it a lot easier. More than that, the iPad makes recording more truly hands-on than anything else I've tried.

Lex Friedman is a staff writer at *Macworld*.



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Things³ YOU CAN DO WITH Dropbox



We asked Macworld readers how they use Dropbox.

Here are their top tips.



Ask *Macworld* editors to name our favorite apps, and most of us would mention Dropbox. The file-synchronizing service has revolutionized the way we use our Macs; we're always looking for new things it can do.

So we posted a note on Macworld.com, asking readers, "How do *you* use Dropbox?" The response was incredible: Between our forums and e-mail, we received nearly 250 suggestions. We sorted through them and then boiled them down to our 60 favorites. (We added two tips of our own at the beginning, to establish the basics.)

(Note: Because so many of the suggestions were duplicates, we can't credit specific contributors; we will, however, send *Macworld* mugs to a random selection of tipsters.)

ILLUSTRATION BY HARRY CAMPBELL



The Basics

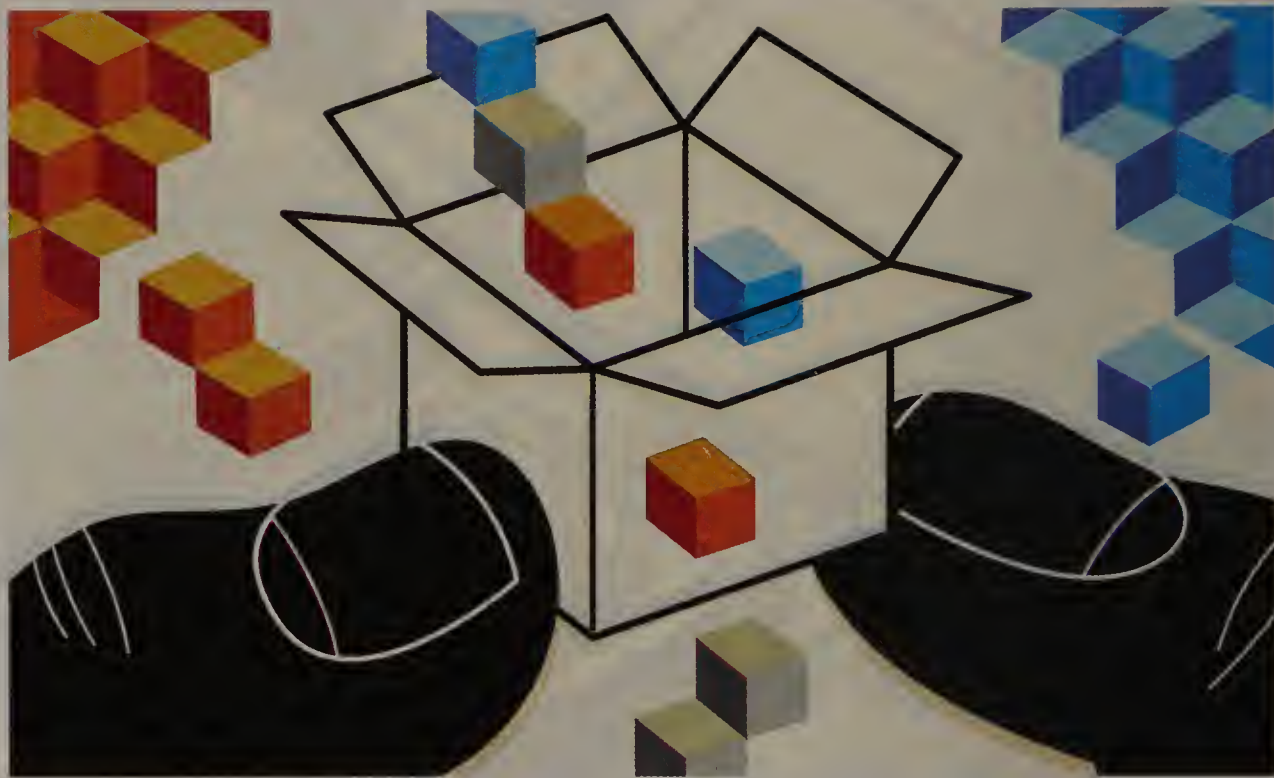
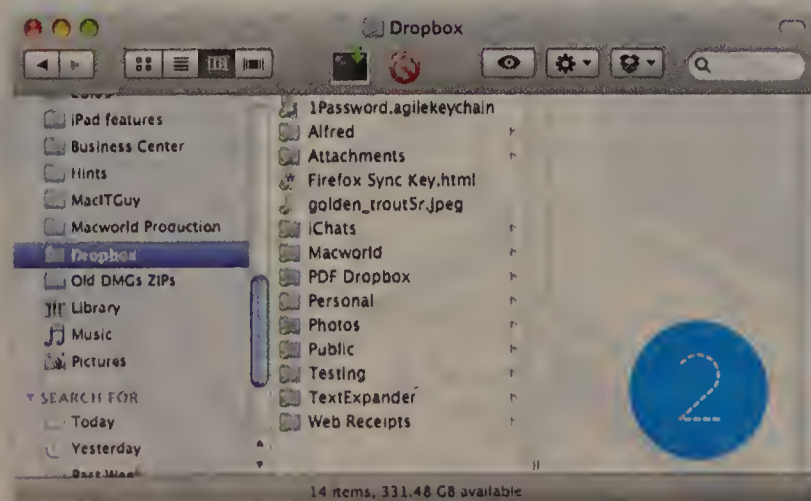
1 Go to www.dropbox.com and set up an account. Next, download and install the Dropbox app. Put files and folders that you need to access from various locations and devices into your new Dropbox folder. Then repeat these steps on your other Macs, Windows PCs, and iOS devices. One benefit of storing important files in Dropbox is that it automatically retains older versions of your files, so you can revert to them if necessary.

2 Create folders in Dropbox, and then create symbolic links to those folders on your Mac. Once you've done this, whenever you appear to be saving a file to a folder on your Mac (to *youruserfolder/Documents/Work*, say) you're actually saving it to Dropbox (*/Dropbox/Work*).

There are a couple of ways to create symbolic links. To do it manually, open Terminal (in

/Applications/Utilities) and enter `ln -s ~/Dropbox/newfolder ~/path/to/symbolic/link` (adjusting as necessary for the locations of your folders). So, for example, if you wanted to move your Documents folder to Dropbox, you could do so and then issue this command in Terminal: `ln -s ~/Dropbox/Documents ~/Documents`.

Instead, you could use utilities such as MacDropAny (🔗; macworld.com/7291), SymbolicLinker (🔗; macworld.com/5705), or DropLink (macworld.com/7292) to accomplish the same thing.



What You Store

3 It's probably impractical to put your entire user folder in Dropbox, but you can put the most important folders there: The Documents folder is an obvious one. The Music and Photos folders might work if you have enough Dropbox space. (Remember, you can upgrade from the 2GB that Dropbox gives you for free to 50GB [\$10 per month] or 100GB [\$20 a month] paid accounts.) Create symbolic links to those folders from your various machines, and you'll have essentially the same Mac wherever you go.

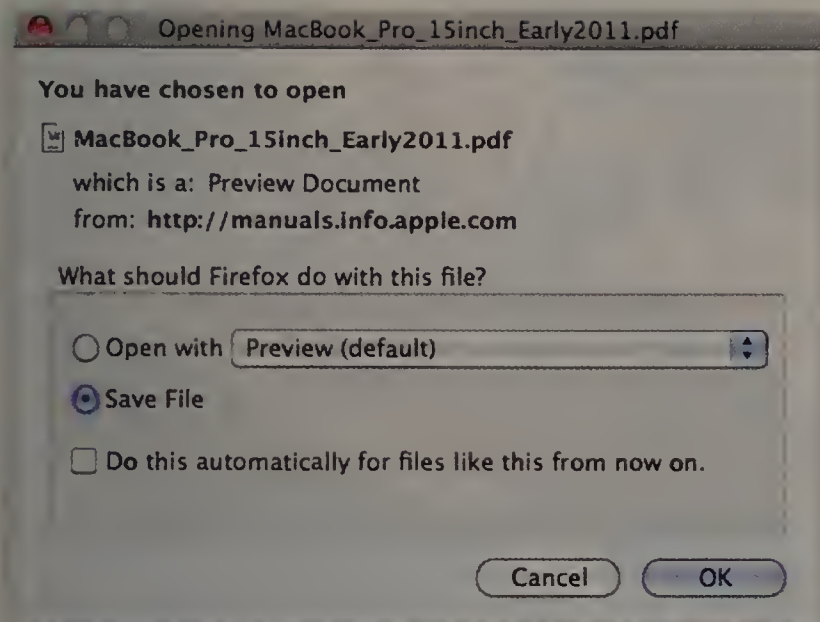
4 If your hard drive is especially small (maybe you have a

MacBook Air), make room on it by moving some of your files to Dropbox.

5 Many of us store the files and folders for active projects on the desktop. Put them in Dropbox instead.

6 Scan important personal documents—your passport, driver's license, marriage certificate, and so on—and store the scans in Dropbox; that way, you can get to them anytime you need to provide a copy.

7 Archive the original installation files of your apps so that you can install (or reinstall) them as necessary on any of your Macs.



Download PDF copies of the user manuals for products you own—appliances and home-entertainment equipment especially—from the vendors' Websites, and then save them all to Dropbox.

9 As long as your music collection is small (or your Dropbox storage allotment sufficiently large), store your iTunes media in Dropbox: Create an iTunes Media folder in Dropbox and copy your media files to it. In iTunes, go to iTunes ► Preferences, select the Advanced tab, and select the Dropbox folder as the iTunes Media Folder Location. (You shouldn't sync the iTunes Music Library.xml file; doing so can reportedly make iTunes unstable. See "What You Shouldn't Sync" for some other files that aren't suitable for storing in Dropbox.)

10 Synchronize Address Book contacts by moving the *youruserfolder/Library/Application Support/Address Book* folder to Dropbox and then creating a symbolic link from its old location to its new one.

belongings, save its data files in Dropbox. If the worst should come to pass, you'll have a full list of items to refer to for insurance purposes.

12 Several third-party utilities—notably 1Password (★★★★½; macworld.com/6722) and TextExpander (★★★★; macworld.com/6123)—let you store their data files in Dropbox; you make the change in each program's preferences. Even if there isn't explicit Dropbox support, you can sometimes synchronize an app's data files by (a) finding out where those files are stored and then (b) using the symbolic link trick to move them to Dropbox.

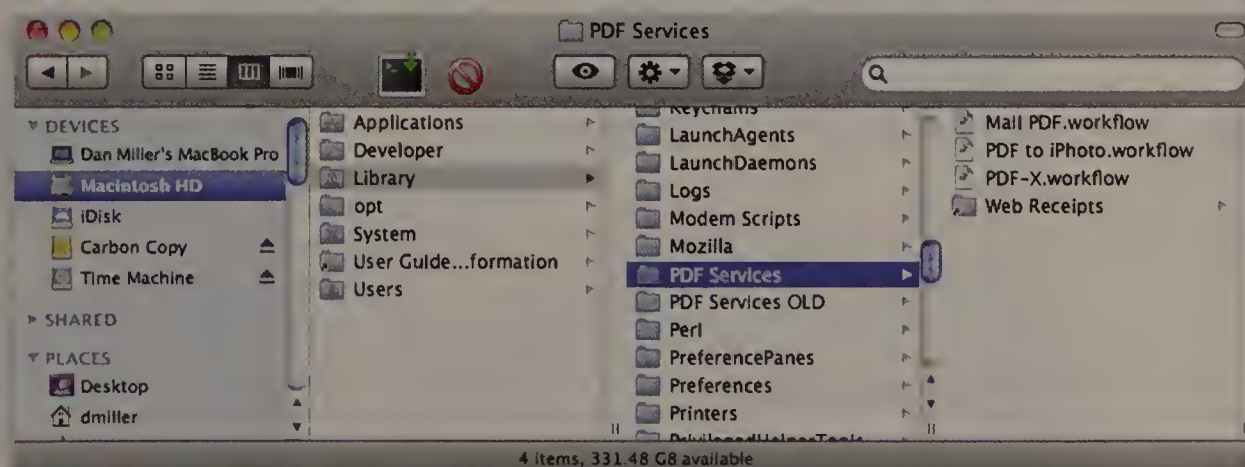
13 Add an extra layer of protection to Dropbox's own security by creating an encrypted container within your Dropbox folder. Several

third-party utilities—including TrueCrypt (www.truecrypt.org)—will help you do so; or you can use OS X's own Disk Utility to create an encrypted disk image. Don't use OS X's FileVault with Dropbox; they do not get along.

14 Programmers: Check an Xcode project out of the source-control system at work and into a Dropbox folder. At home that night, fire up Xcode, pointing it at the same Dropbox folder, and continue working. When you get back to work the next day, check the project back into source control.

15 Web developers: Use Dropbox to store "local" copies of files you're working with on live servers. As you change those files, from different locations, they'll synchronize, so you'll always have current copies to work on.

11 If you use an inventory app such as Home Inventory (★★★★; macworld.com/7018) or My Stuff (★★★★; macworld.com/7293) to keep track of your



Move the Web Receipts folder to Dropbox, and then edit the Save To Web Receipts Folder workflow so it points to the new location. Unfortunately, because that workflow is actually a Python script, editing it is nontrivial; you can't use Automator to do it. The instructions are available online, if you care to search. It's probably simpler to just create a new Save Receipts shortcut instead. To do so, navigate to */Library/PDF Services* and move the existing 'Save PDF to Web Receipts Folder.pdfworkflow' script somewhere else for safekeeping. Now move the Web Receipts folder from your Documents folder to Dropbox. Make an alias of it (not a symbolic link), and drag that alias into */Library/PDF Services*. If you want to, you can rename the alias to make it more active—"Save To Receipts Folder," perhaps.

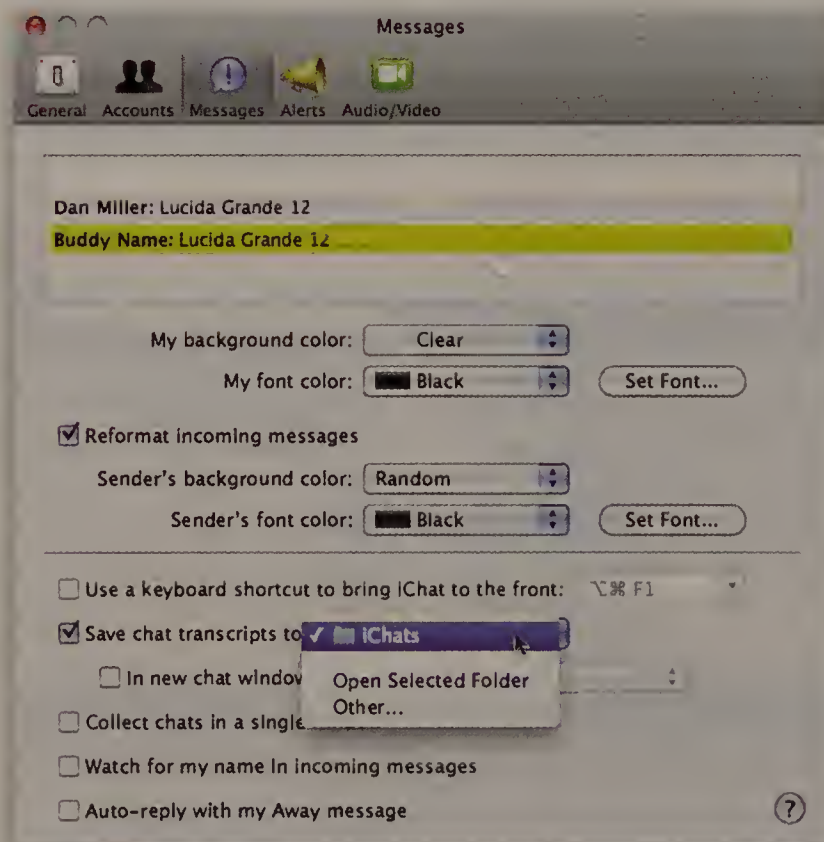
17 Keep your iWeb domain files in Dropbox. (By default, they're in *youruserfolder/Library/Application Support/iWeb/Domain*.)

18 Store all your plain-text notes in Dropbox. Plain text is the ideal cross-platform format, and there are many, many text editors (for both OS X and iOS) that are Dropbox-friendly.

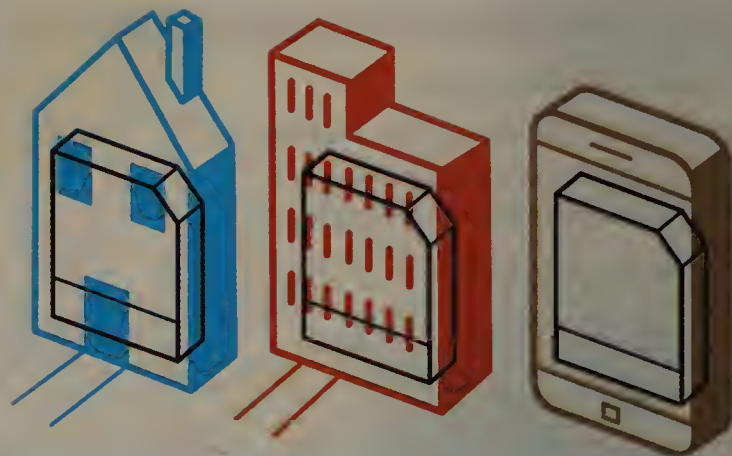
19 Synchronize your browser bookmarks. If you use Safari, that means moving the folder *youruserfolder/Library/Safari* to Dropbox, and then creating a symbolic link from the old location to the new.

Firefox stores its bookmarks in a file called 'places.sqlite,' which is buried in the folder *youruserfolder/Library/Application Support/Firefox/Profiles/random-sequenceofcharacters.default*. You could synchronize that one file in Dropbox as you do other files. Or you could synchronize your entire profile, which includes your history, saved tabs, and more, in addition to bookmarks, by synchronizing that entire folder.

20 If you'd rather not go to the trouble of synchronizing bookmark files or profiles, you can always sync .webloc files linking to specific Websites.



21 Sync instant-messaging transcripts: If you use iChat, move the iChats folder from Documents to Dropbox. Then open the Messages tab in Preferences and select that folder from Save Chat Transcripts To. If you use the Adium IM client, its logs are kept in *youruserfolder/Library/Application Support/Adium versionnumber/Users/Default/Logs*.



One File, Many Places

22 Keep your grocery list as a text or word processing file in Dropbox, where it will be accessible from anywhere via a smartphone or an iPad. You can add to it from anywhere; if you share it, so can your housemates, say.

23 Before you leave for a business trip, save work documents you'll need in Dropbox. You can then access them from virtually anywhere via a Mac, an iPhone, or an iPad.

24 If you use both Macs and Windows PCs (whether they're in the same location or in different places), you can access files stored in Dropbox from all of them. That doesn't apply to data alone: Some cross-platform apps use the same format for their settings files on both Macs and PCs;

Mozilla's Thunderbird e-mail apps is just one example.

25 Set up a Drop-DAV (www.dropdav.com) account, and then synchronize files from the iWork suite on the iPad with Dropbox.

26 Sync files with Android phones, using that platform's Dropbox app.

27 If your company has more than one location, and you frequently shuttle between them, keep important files in Dropbox so they're available wherever your office is that day.

28 Give meeting participants iPads, and sync all of those tablets to the same Dropbox folder. You can then distribute meeting agendas and background materials instantly to everyone at the same time.

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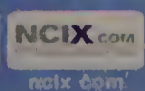
Read: up to 550MB/s - Write: up to 520MB/s
Random Write 4KB (Aligned): up to 60,000 IOPS



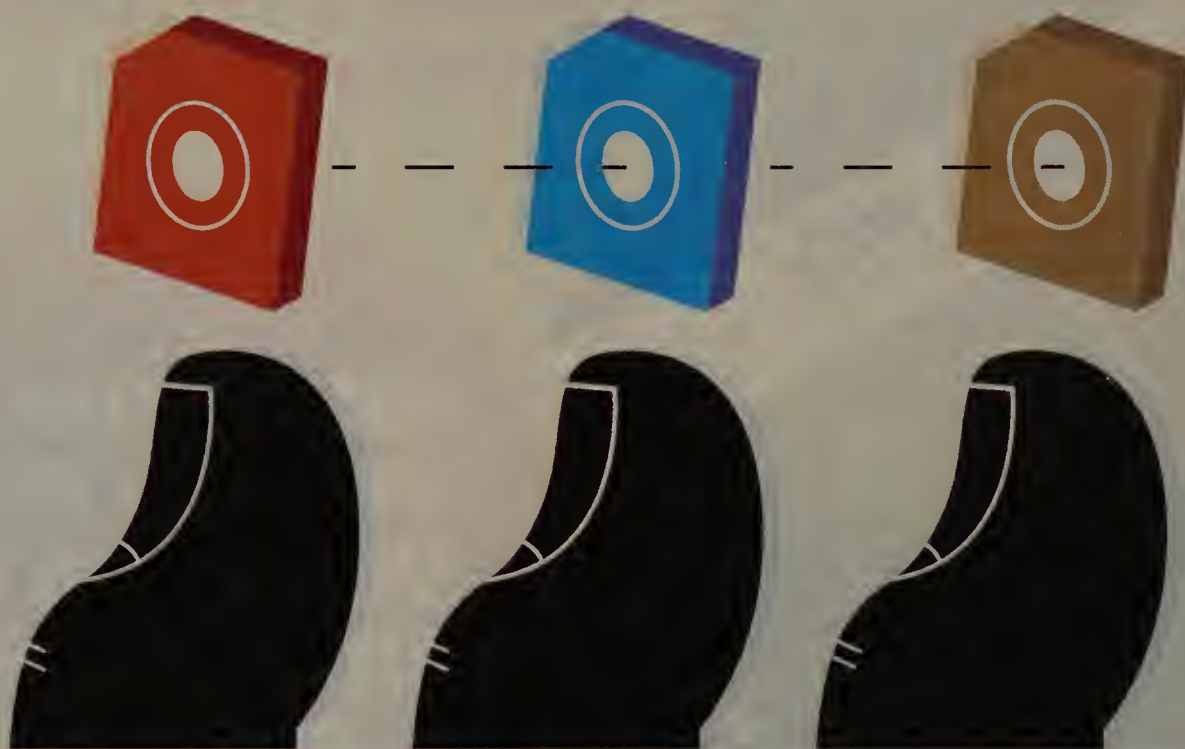
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One File, Many Users

29 Take advantage of Dropbox's LAN Sync feature to directly synchronize Macs that are on the same local network. It's simpler than configuring standard OS X file sharing.

30 Set up separate folders in Dropbox's Public folder for different clients or coworkers, and then send the separate URLs to each. Alternatively, set up a different shared folder for each project, and then distribute that URL to all project participants.

31 If you outsource some work to outside contractors, post the work files they'll

need in Dropbox and mail them the URL; you can then disable the links when the job is done.

32 Many e-mail services have size limits on file attachments. To send files that are too big for e-mail, post them to a shared folder in Dropbox instead.

33 Working with someone who doesn't have a Dropbox account? Are the regular shared folders or the Public folder not working for you? Then use AirDropper (airdropper.com) to send and receive files. It's Dropbox-compatible, so files transferred by AirDropper are accessible in Dropbox.

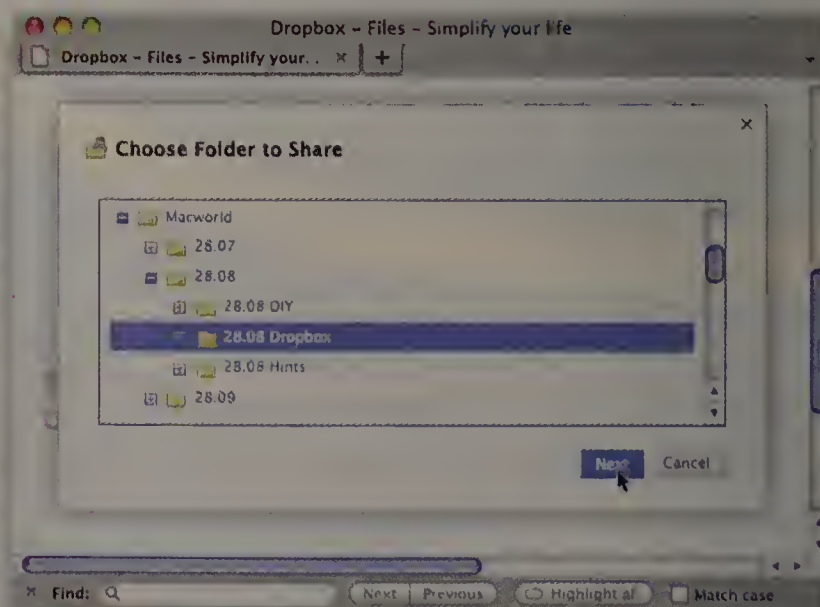
36 You can save money on postage by scanning large documents and then depositing the scans in Dropbox. It's a lot cheaper than sending those same documents via mail or some other delivery service.

37 If your teleconferencing service doesn't have its own file-sharing tools (or if you use a generic VoIP service like Skype for your phone meetings), use Dropbox to share the files you'll refer to on the call.

34 Instead of writing the minutes of a meeting by hand, record everything in audio and then upload the resulting .wav file to Dropbox. From there, you (or someone who works for you) can download it for transcription.

38 Have traveling workers store scanned receipts and expense reports in a Dropbox folder to which your accountants have access.

39 In projects that require multiple iterations of a



35 To share work files among coworkers, store them in Dropbox's Public folder; Control-click (or right-click) on a file in that folder, select Copy Public Link, and share that URL. Or share a folder: At dropbox.com, Control-click on a folder, and then select Invite To Folder and provide an e-mail address. Or select Share A Folder from the top menu.



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document, use Dropbox's built-in backup as an ad hoc versioning system; if you need to roll back to an earlier version of a work file, you can.

40 Store your company-wide help files and policy documents in Dropbox. That way, when you update one of them, everybody can access the same new versions at the same time.

41 Copy photos to Dropbox, and share the URL with family and friends.

42 Keep your resume in a Dropbox folder and then send out a link to it to potential employers.

43 Post PDFs of the menus (take-out or otherwise) for local restaurants in a shared Dropbox folder, and then use that to coordinate meals out with friends and family.

44 Share a Dropbox folder with parents, and point their Macs to that folder as the source for desktop and screensaver images. Then, when you post pictures of your kids to that folder, they'll show up on the grandparents' machines automatically.

45 Keep a far-flung family up-to-date on the latest goings-on by posting personal newsletters to a shared Dropbox folder.

46 Use Dropbox to collaboratively care for aging relatives: If the people who are collaborating on an elder's care live in different places, everyone can post updates to medical and personal information in Dropbox, so everyone has the same information; you can also leave notes for each other in a text document.

47 Share photos from your travels with folks back home by posting the pictures from your iPhone to a shared Dropbox folder.

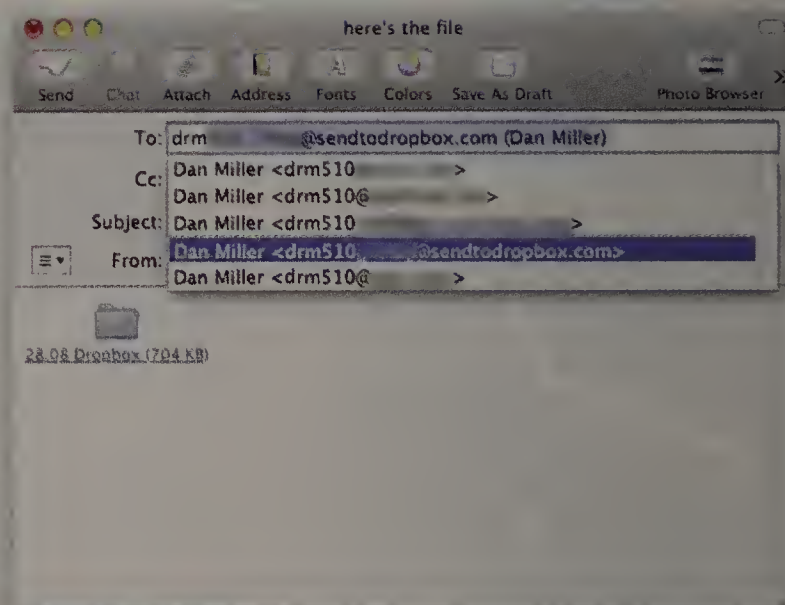
48 If you're the default tech-support person for your friends and extended family, create shared help documents or screencasts that answer the most frequently asked questions.

49 Collect family-history documents and photographs from widely scattered relatives in one shared folder.

50 Ask each student to create a Dropbox account and then submit their homework to a shared folder in it; no more "I forgot my computer" excuses.

51 Store reading assignments that are in PDF or some other digital format in a Dropbox folder. If you make annotations in an app like GoodReader, your notes will then be available from anywhere.

Beyond the Basics



52 Go to the Send to Dropbox Website (sendtodropbox.com), click on Connect To Dropbox, and provide your Dropbox credentials. You can now e-mail files to Dropbox. That makes all sorts of scenarios possible. For example, create a document in Google Docs and then opt to share it. In the Share dropdown menu, select Email As Attachment and provide your Send to Dropbox e-mail address; the Google Doc will appear in Dropbox's Attachments folder.



53 Open e-mail attachments on the iPad in GoodReader. Review the document and then save it from GoodReader to Dropbox. When you get back to your Mac, a copy will be waiting for you in your Dropbox folder.

sets aren't too huge, periodically save one of them to Dropbox. If both your computer's hard drive and your backup drive should fail, you could still recover some data. Or, if you notice that your Mac is acting funny, quickly copy important files to Dropbox, in case your Mac really falls apart.



54 Use Dropbox as a backup for your backup. Assuming that your Time Machine backup



55 Save incrementally between Time Machine's hourly backups: Save a copy of whatever you're working

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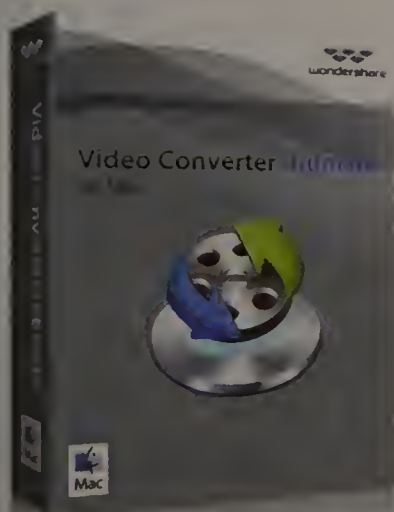


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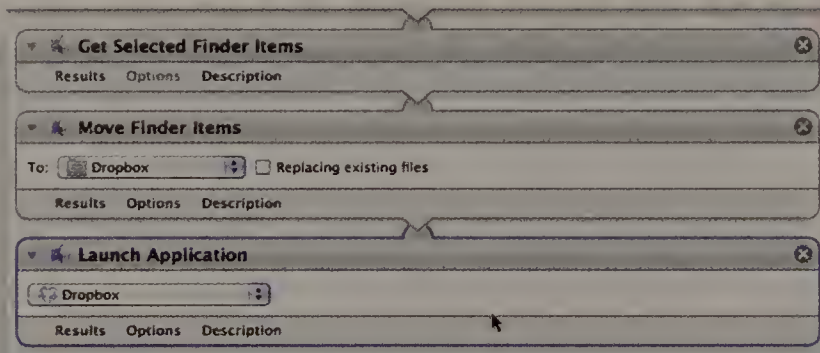
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Available on the Apple Store, the iTunes Store, the iPod touch Store, the Mac App Store, and the Windows Store.



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56

Create an Automator service that copies or moves selected files in the Finder to Dropbox (with permission to overwrite existing files), and then launches the Dropbox app for immediate synchronization.

on at the moment to Dropbox, adding some sort of time-stamp to its filename.

57

Normally, Dropbox saves versions of your

files for 30 days. If you have one of the for-pay Pro accounts, you can install the Pack-Rat add-on (www.dropbox.com/help/113). Dropbox will then save those files indefinitely.

What You Shouldn't Sync

Users have reported problems when they've tried to synchronize some files via Dropbox. One common thread among those problems is that if a program checks for conflicted copies of its data files, Dropbox could confuse it.

The three biggest apps for which we've seen reports about problems are the following:

- iTunes (the 'iTunes Music Library.xml' file)
- iPhoto (its libraries)
- Quicken (its data files)

No matter which apps you're synchronizing via Dropbox, you should be careful to close those files as soon as you're done with your immediate editing session. That way you won't inadvertently leave a file open in one place and create file conflicts when you try to open it from another.

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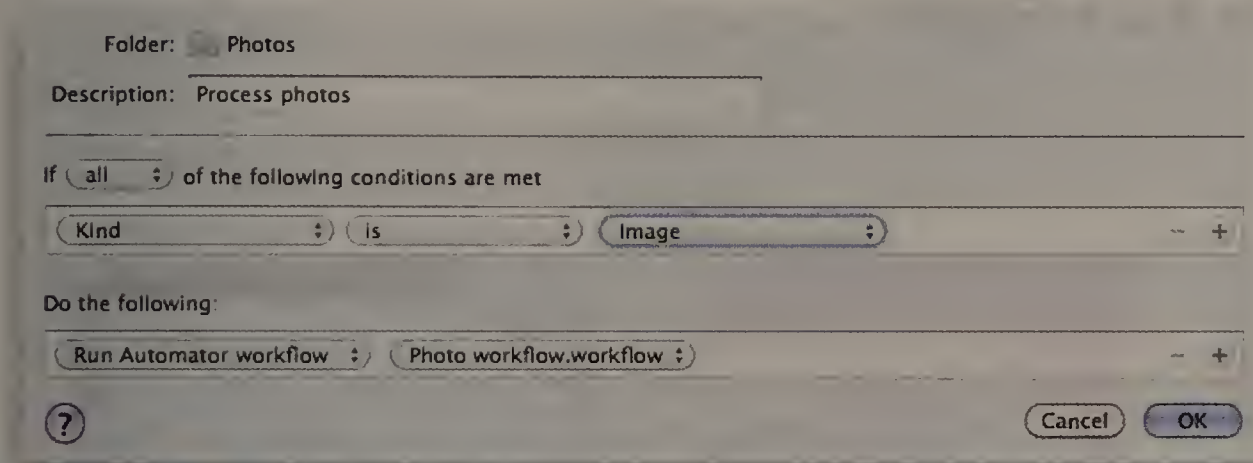
58 If you have a file on a remote Mac that you need to access from your iOS device, use SSH or a VNC app like

LogMeIn to connect to the Mac and then copy the file to your Dropbox folder; when you next sync, the file will be available on your iPhone or iPad.

60 Forget about complicated file-sharing settings: Just install the Dropbox app on all of your devices.

61 Configure your BitTorrent client to monitor a Dropbox folder and immediately initiate downloads when a new .torrent file is added to it. You can then copy a file to that Dropbox folder to initiate the download. (Just make sure your client is configured to save those downloads to somewhere other than Dropbox.)

62 If you need to give the same message to a bunch of different people, don't call them one by one and read from a script. Instead, record the message and post the recording to a public Dropbox folder. Then e-mail the link to everyone.



59 Automate Dropbox folders by using OS X's Folder Actions or Noodlesoft's Hazel (🔗; macworld.com/6885). For example: Save iPhone photos to a Dropbox folder that Hazel monitors. When it sees that a new photo has been added to the folder, it can then apply some image processing and copy the processed version to another folder on your Mac or in Dropbox.

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Say Farewell to Paper

You can reduce your paper usage and increase efficiency while you're at it

BY JOE KISSELL

Look around. Do stacks of paper cover your desk and crowd your keyboard? Do you ever wish you could find and use paper documents as easily as digital ones? Whether you're tired of the clutter or you want to modernize your workflow, it may be time to take steps in the direction of a paperless future. Here's how to make it happen.

Paperless Basics

Reducing clutter is one good reason to take your office paperless, but perhaps an even more compelling benefit is that when files are electronic, they're *searchable*. That means no more rooting through folders and filing cabinets for one elusive page. What's more, you can share documents easily, and back them all up in case disaster strikes.

The key to doing all this is the searchable PDF format, which contains a scanned bitmap image of a paper document, with an invisible overlay containing searchable, selectable text. Your scanned documents look just like the originals, but you can interact with them as if they were PDFs created through a word processor.

When files are electronic, they're searchable. That means no more rooting through folders and filing cabinets for one elusive page.

Any of numerous Mac OS X applications can turn a scanned image into a searchable PDF. Combine that software with a speedy scanner, and you'll tear through your paper files in no time. You can then recycle or shred the papers you no longer need and store original copies only when necessary.



Tips to Start

Scanning incoming paper is just part of the process. Here are other steps to take:

Reduce Incoming Paper Ask to be removed from snail-mail mailing lists. Request that clients and vendors switch to electronic invoicing and payments. Opt for electronic statements and utility bills. (To get rid of your mail altogether, see "The Paperless [Post] Office.")

Reduce Outgoing Paper To help break the printing habit, try saving documents in PDF format instead, and then copying them to your iOS device so that you can carry them with you. (See "More Ways to Go Green," *Working Mac*, page 54.)

Put OCR in Your Pocket Instead of collecting business cards, brochures, and

handouts when traveling for business, pick up an iOS app that lets you snap a photo with your iPhone or iPod touch and perform OCR right on your mobile device. Examples of such apps include Norfello Oy's \$4 DocScanner 5.0 (macworld.com/7236) and Creaceed's \$10 Prizmo (macworld.com/7237).

Scanner Options

If you're hoping to convert hundreds or thousands of printed documents to digital format, you want a fast, no-nonsense document scanner. The most important attributes to look for in a document scanner are fast single-pass duplex scanning, a capacious automatic document feeder, and an OS X-compatible software bundle that includes easy-to-use OCR capabilities.

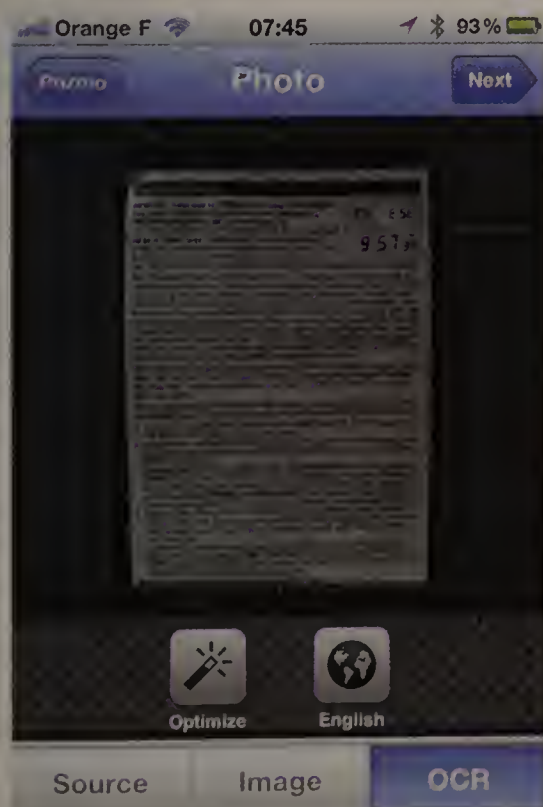
Mac users have more than a dozen such options in the \$300 to \$500 price range. I've been very happy with several different Fujitsu ScanSnap models I've

used—my current pick would be the semiportable \$295 ScanSnap S1300 (macworld.com/7238)—but scanners with comparable features and prices are also available from companies like Canon, Epson, the Neat Company, Visioneer, and Xerox.

OCR Software

Almost every document scanner includes bundled OCR software. For example, Fujitsu's ScanSnap scanners and Epson's WorkForce Pro scanners come with versions of Abbyy FineReader, and Neat scanners come with NeatWorks software. However, if you prefer software with specific features not found in the bundle (such as support for additional languages or advanced PDF editing), you can buy stand-alone OCR software. Here are three of my favorites:

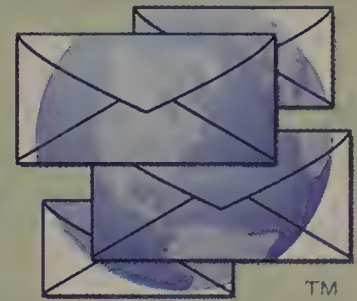
Abbyy FineReader Express for Mac Although several scanner manufacturers bundle limited versions of this application, Abbyy's \$100 full version (★★★★½; macworld.com/7240) is even more powerful, with a selection of image-manipulation features and support for 171 languages.



iPhone OCR After you snap a photo on your iPhone with Prizmo, you can optimize it and perform OCR with a couple of taps.

The Paperless (Post) Office

Whether you're living abroad or you just want to cut out a major source of office paper, you can hire a virtual mail room to process packages, letters, and checks for you. Earth Class Mail (www.earthclassmail.com) will receive mail on your behalf in any of 19 cities around the United States. When a piece of mail arrives, the company scans the outside of it (or, takes a picture of the box) and sends you an e-mail notification. Go to the company's secure Website to do any of several



things: Open the mail, scan its contents, and make them available as a downloadable PDF file; hold the mail for pickup; recycle or shred the mail; forward the mail anywhere in the world, using your choice of shipping carriers and delivery types; archive the mail in the company's secure facility; and—here's a key feature—electronically deposit in your checking account any checks you receive in the mail. Joe Kissell talks about his four years of using this service while living in France, and what its advantages and disadvantages are, at macworld.com/7246.

DevonThink Pro Office This \$150 all-purpose document manager from DevonTechnologies (macworld.com/7241) not only performs OCR but also integrates tightly with Fujitsu's ScanSnap scanners, letting you scan documents, convert them to searchable PDFs, and add them to your document database with one button press.

PDFpen Smile Software's \$60 PDF editing and annotation tool (★★★★; macworld.com/7242) offers OCR too, and also has good AppleScript support.

Scripts that Can Help

Virtually all scanner software can save scans in the folder of your choice and in a variety of formats, including PDF. However, that alone doesn't give you a searchable PDF; you must also process the image with OCR software. Some scanner software has built-in OCR capabilities. For example, Fujitsu's ScanSnap Manager software can produce a searchable PDF from scanned documents automatically by using a built-in version of Abbyy FineReader, or it can divert raw scans to DevonThink Pro Office, which can then perform OCR.

However, in some cases the scanner's software does nothing but save unprocessed PDFs, and in others it can open the PDFs in an OCR application but not tell

the application to begin recognizing the text. In such situations, your best bet is to use an AppleScript folder action to open the freshly scanned documents and initiate the OCR process. I've created scripts that do just this for Acrobat Standard 7; Acrobat Pro 7, 8, 9, and X; PDFpen and PDFpenPro; and Readiris Pro. Download the scripts at macworld.com/7243, and follow the detailed instructions to configure and use them.

Managing PDFs

Once you have a searchable PDF, you can simply store it in a folder and use Spotlight in the Finder to search its contents. However, several other programs specialize in managing PDFs, letting you categorize, tag, or organize them in a more flexible manner than the Finder allows.

DevonThink Pro Office is one of these; some other popular options include Bare Bones Software's \$39 Yojimbo (★★★★; macworld.com/7244), C-Command Software's \$40 EagleFiler (★★★★; macworld.com/4807), and Ironic Software's \$39 Yep (★★★★; macworld.com/7245).

Senior Contributor **Joe Kissell** is the senior editor of TidBits and the author of the e-book *Take Control of Your Paperless Office* (TidBits Publishing, 2010).

More Ways to Go Green

Macworld readers share easy ways to save money and resources with a Mac

BY SCHOLLE SAWYER MCFARLAND

We polled *Macworld*'s readers to find their favorite tips for green computing. Here are some top picks.

Use PDFs Whenever Possible

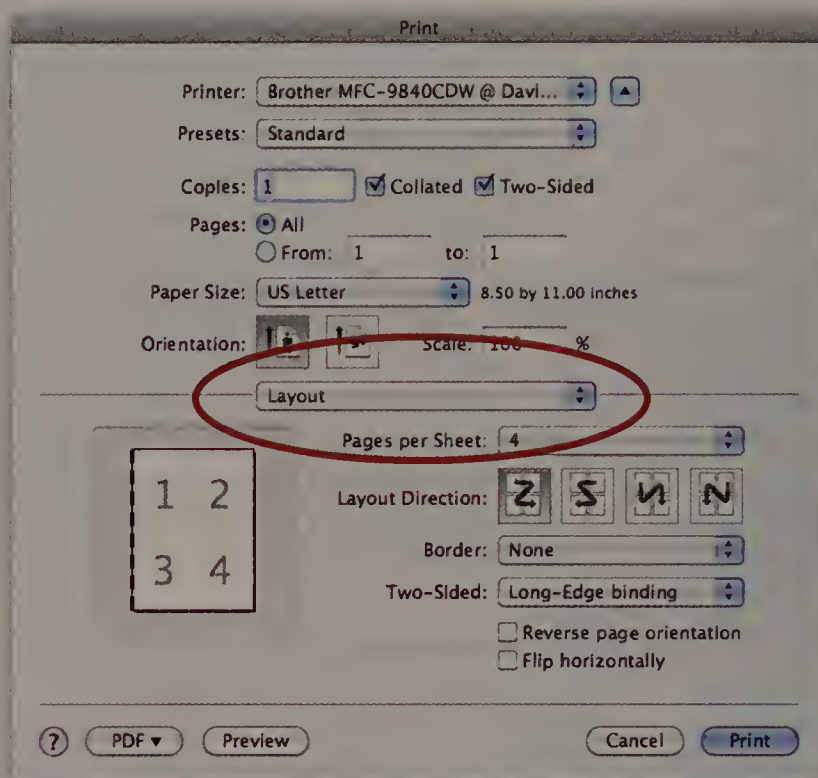
Even if you don't feel ready to commit all the way to a paperless workflow, you can still cut back on your paper use.

It's easy to take advantage of OS X's built-in support for the PDF file format in small but significant ways. Reader ckasper called out the ever-handy Save As PDF feature. Instead of printing receipts for every online purchase, for instance, press ⌘-P and, in the Print window that appears, click on the PDF button. Choose Save PDF To Web Receipts Folder, and a copy of the receipt—images and all—will be saved to a premade folder in *youruserfolder/Documents*.

If you want to save PDFs in a different folder, you can do that, too. (For instance, make one for 'Donations'.) Create your new folder wherever you'd like it. Then, the next time you need to save a PDF, press ⌘-P, click on the PDF button, choose Edit Menu from the menu, and then click on the plus-sign (+) button to add your folder. The folder will appear in the PDF menu from then on.

Make the Most of Paper

If you must print, use both sides of the page, noted reader bradthurley. Most newer



printers can do this. Press ⌘-P, click on the menu at the middle of the dialog box, and choose Layout. If you have the option, you'll see a Two Sided menu at the lower right of the dialog box. Choose Long Edge Binding or Short Edge Binding.

When you need to check through a large document, consider cramming more than one page onto a sheet of paper. To do this, go to the menu at the middle again, choose Layout, and then choose a number (up to 16) from the Pages Per Sheet pop-up menu. Choose a layout direction to control how the pages stack up (see "Paper-Saving Options").

Paper-Saving Options

Select Layout from the pop-up menu at the middle of the Print dialog box (circled). If your printer offers two-sided printing, you should see the Two-Sided pop-up menu in the options that appear. Use the Pages Per Sheet pop-up menu to fit more pages on one sheet of paper.

Turn Things Off

The easiest way to save energy is to turn your equipment off when you're not using it, as readers Maxer and ckasper each suggested. A sleeping Mac still draws power; turning it off altogether reduces the load even more.

Open System Preferences, choose Energy Saver, and click on Schedule. A sheet will appear where you can choose a daily startup and shutdown time for your Mac. You can even determine separate schedules for the weekdays and weekend by clicking on the Every Day pop-up menus.



Pad & Quill Cartella for MacBook Air

Handmade using traditional book-binding techniques, the Pad & Quill Cartella for MacBook Air (\$90; macworld.com/7252) hides your MacBook Air inside what looks to be an actual tome. The outer cover is made of Italian leather, bound with an elastic strap to a rigid front and back. The inside of the cover is lined in red, and the front cover's interior sports a flap for carrying documents. The Cartella is designed to let you use your Air without removing it from the case. You can flip the front cover against the back to form a makeshift stand. The case doesn't offer much protection from drops, and you'll want to care for its leather covering like you would the hand-bound books that inspire it, but contemporary bookworms will enjoy the Cartella's literary look.—DAN FRANKS



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Stamp Out E-mail Annoyances

Quick answers to common complaints

BY CHRISTOPHER BREEN

Hour after hour, day after day, we check our e-mail. Given that we spend this amount of time with a single program, it's important that it give us as little trouble as possible. Here are solutions to two common problems.

Send E-mail from Public Places

It's a piece of cake to send e-mail messages from home or work, but you may find it difficult to send e-mail from such public locations as coffee shops and hotels. The reason for this is that such locations often block common SMTP (Simple Mail Transfer Protocol—the e-mail transmission standard) ports.

One way around this is to add a free Gmail (mail.google.com) or Yahoo (mail.yahoo.com) account, as the SMTP ports used by these services are very rarely blocked. Then configure your Mail account to send from this Webmail account if it can't from your regular e-mail account.

Launch Mail, open Mail ► Preferences, and select the Accounts tab. Select your regular e-mail account, and in the Account Information tab be sure that your Gmail or Yahoo account appears in the Outgoing Mail Server (SMTP) pop-up menu. Now disable the Use Only This Server option. You can add or delete SMTP servers by choosing Edit SMTP Server List from this pop-up menu and clicking the plus-sign (+) or minus-sign (–) buttons. (See “Give Mail a Choice.”) Next time you're out and about and want to send e-mail, Mail will attempt to send from the SMTP server configured in the Account Information window. If it fails, it will try any other SMTP servers in the list.

Deal with Password Problems

There's little that's more frustrating than launching Mail, only to have the program demand a password it had asked you for just the day before. There are many reasons this can happen.

The first is that your Internet Service Provider's (ISP's) mail server may be offline. If you try again, Mail might work just fine. This can also happen when a similar request was made seconds before—say, your iPhone just accessed the account. Worst of all, there's a chance a hacker has changed your password.

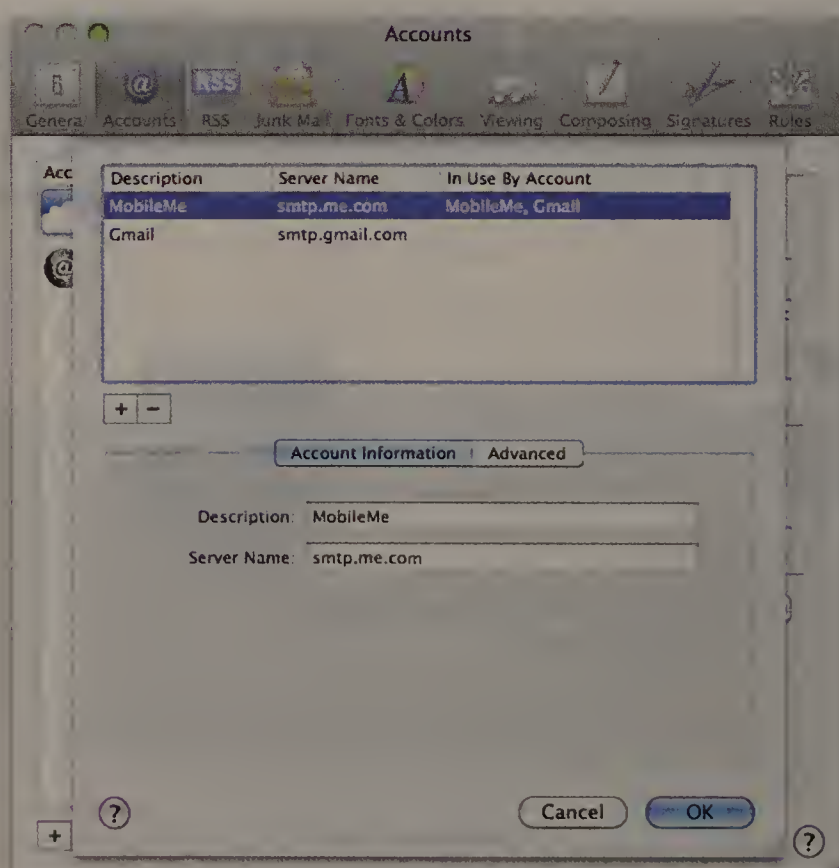
You have a couple of ways to check if the problem is with your ISP rather than your Mac. One is to attempt to retrieve mail using a different device—your iPad, for instance. If you meet the same resistance, it's likely a problem with your ISP. The other way to check is to retrieve your e-mail via your ISP's Webmail service. If the password works there but not with your Mac, then it's a Mac issue.

To troubleshoot a Mac problem, open Mail's preferences (Mail ► Preferences), select the Accounts tab, and reenter your password in the Password field. Then launch Keychain Access (found in /Applications/Utilities) and use the search field to locate your e-mail account (by typing mail.me.com, for

example). Enable the Show Password option. When prompted, enter your administrator password and click Allow. Take a look at the password that appears in the Show Password field to see that it matches the password you believe is correct. If there's no password, add it and click Save Changes.

Next, be sure that you're using the correct port setting. You'll find this setting by opening Mail's preferences, selecting Accounts, selecting the account in question, and clicking the Advanced tab. The receiving port will appear in the middle of the window. Your ISP or IT person can tell you which port you should be using.

If all else fails, delete the account in Mail's Accounts preference and re-create it. (If you have a POP account, be sure to back up your messages first, as they'll be deleted along with the account.) When you do, be sure to have all the correct settings for configuring your account. Your ISP or IT person should be able to supply you with that information.



Give Mail a Choice

If you give Mail more than one choice of SMTP server, it will try using the next in the list when your first choice isn't available.

Your music
never sounded
so good.



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Welcome to a better sounding world, where your music comes alive as never before. The QC®15 headphones are our best, with Bose® technologies that deliver sound more naturally than conventional headphones. And a significant improvement in the noise reduction helps you focus on each nuance of your music, as distractions fade into the background. Seth Porges reports in *Popular Mechanics* that "Compared to the competition...the QC15s are vastly superior." It's a difference you need to hear to believe. We're so sure you'll be delighted, we'll even pay to ship them to your door.

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HARDWARE

Canon imageFormula P-150 ▴

The Canon imageFormula P-150 is a portable, 600-dpi, USB bus-powered document scanner also known as the Scan-tini. But don't let its cute nickname fool you; this compact document scanner has some impressive specs. The 2.2-pound device measures 11 by 2 by 4 inches when packed for traveling. It comes with a plug-and-scan version of Canon's Capture-OnTouch Lite software, but if you need OCR or want to create searchable PDFs, install the full version of CaptureOnTouch, as well as the TWAIN driver and bundled Presto PageManager 9 SE and Presto BizCard 5 software. The Scan-tini is a duplex scanner with a 20-sheet automatic document feeder that makes scanning multiple pages a breeze. It can acquire scans from within TWAIN-compliant programs. Scanning a ten-page double-sided text document at 300 dpi took 59 seconds. Photos scanned at default settings took 18 seconds. The quality of scans improved notably when we increased the dots per inch. At 600 dpi, a photo took three times as long to scan, but delivered the best quality we've seen from a portable document scanner (macworld.com/7253).
★★★★; \$295; Canon, www.usa.canon.com

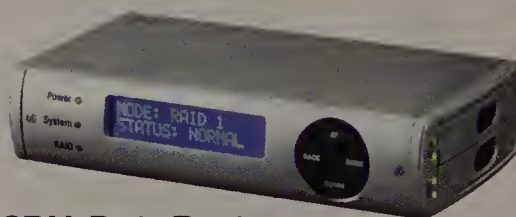
Canon Pixma MG6120 ▾

The Canon Pixma MG6120 color inkjet multifunction printer offers a lot for the money, including impressive performance and features. The MFP offers USB, ethernet, and Wi-Fi connectivity; two



150-sheet input trays; automatic duplexing; and slots for CompactFlash, Memory Stick, SD Card, and XD Picture Card media, as well as a port for USB thumb drives and PictBridge-connected devices. One of the very few things missing from the Pixma MG6120 is an automatic document feeder. In our tests, the Pixma MG6120 posted above-average speeds for an inkjet. Our monochrome documents looked crisp, and they printed at a rate of 7.8 pages per minute. The full-page, high-resolution photo that we printed emerged at a midrange speed of 0.5 ppm. Output quality is very good. The Pixma MG6120's ink costs are slightly lower than the norm. The standard-size black cartridge with a 328-page capacity runs 4.9 cents per page. The individual cyan, magenta, and yellow cartridges each cost about 3.1 cents per color per page. A typical page with all four colors costs 14.2 cents to print (macworld.com/7254).

★★★★; \$200; Canon, www.usa.canon.com



CRU-DataPort ToughTech Duo ▴

As its name implies, the ToughTech Duo RAID array from Cru-DataPort looks sturdy and feels like it can take a pounding. With its quad-interface connectivity, easy-to-use LCD menu system, and screwless hard-drive trays, the ToughTech Duo is a two-drive, portable RAID array that's easy to set up and use. Cru-DataPort touts the ToughTech Duo's portability, but at 1.75 pounds the device feels heavy when held in one hand. The ToughTech Duo features two 2.5-inch screwless hard-drive trays, and it takes very little effort to add or remove a drive. The ToughTech Duo includes two FireWire 800 ports and is backward-compatible with FireWire 400 when used with the proper adapter

(included). The drive also has a single eSATA/USB 2.0 combo port that can accommodate either connection. In our USB 2.0 testing, the array's speeds were in line with those of standard external portable hard drives. Our FireWire 800 test results were mixed, some above average and others below average. The ToughTech Duo is more than twice as expensive as other similarly configured drives, but it's easy to use and manage, it operates quietly, and it makes child's play of hard-drive swapping (macworld.com/7255).

★★★★½; \$669; Cru-DataPort, www.cru-dataport.com

OWC Mercury Elite-AL Pro Dual Mini ▾

The Mercury Elite-AL Pro Dual mini, Other World Computing's newest portable storage device, is an impressively fast RAID array. It comes with USB 2.0, FireWire 400 and 800, and eSATA connectivity. Note that the device comes with a FireWire 800 to 12-volt power cable, but not an AC adapter. If you have a laptop that doesn't have a FireWire port, such as the current MacBook or MacBook Air, you'll need to order an AC power adapter from OWC. Changing the array configuration after you've bought the drive is a little difficult to do, since instructions aren't included. Still, it is possible with some help from OWC tech support. In our testing, the Mercury Elite-AL Pro Dual mini posted excellent numbers in our USB 2.0 and FireWire



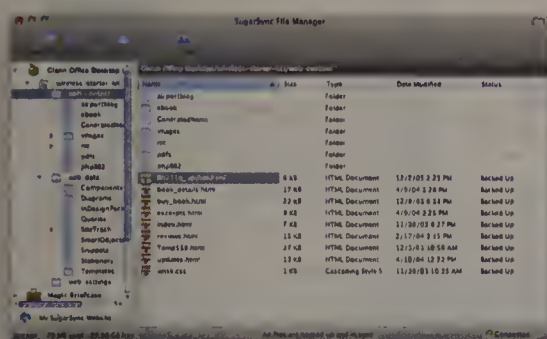
Find It Online

For expanded reviews, type the blue URL at the end of each summary into your browser's address bar.



800 tests. But where the device really impressed us was in our low-memory Photoshop test, placing the best scores of any drive we've tested so far this year. With the outstanding Photoshop scores and first-rate transfer speeds, the Mercury Elite-AL Pro Dual mini is an overall good choice as a storage device for demanding users (macworld.com/7256).

★★★★; \$180; Other World Computing, eshop.macsales.com



SOFTWARE

SugarSync ▲

SugarSync assumes that you have different synchronization needs on your different computers. Unlike Dropbox, SugarSync doesn't sync just one default folder among different computers. Instead, it lets you finger any of the folders on your various computers for syncing to the cloud. Once you've specified a given folder on one machine, you can opt to link that folder to directories with the same name on any or all of the other computers you've linked to your account. Files are stored on the company's central servers, where they're available through a Web interface. SugarSync isn't as exhaustive as other services in storing older versions of your files. It stores only the five latest versions of each file; deleted files are stored in a special folder until permanently removed. The service has excellent mobile support, with apps for iOS, Android, BlackBerry, Symbian, and Windows Mobile 5 and 6; it also has a mobile Website. SugarSync has a variety of pricing plans, from free for 5GB of storage to \$40 per month (or \$400 a year) for 500GB. Group plans start at \$30 per month (or \$300 a year) for three users and 100GB (macworld.com/7257).

★★★★; free; SugarSync, www.sugarsync.com

Top Products YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



HARD DRIVES Desktop

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
AV Drive www.caldigit.com	★★★★½	\$195 (1TB)	USB 3.0	6757
iTi Dock www.istoragepro.com	★★★★	\$329 (2TB)	quad interface	5843
My Book Studio (pictured) www.wdc.com	★★★★	\$150 (2TB)	triple interface	6849



HARD DRIVES Portable

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
eGo BlackBelt Mac Edition go.iomega.com	★★★★	\$200 (1TB)	double interface	7013
eGo Mac Edition go.iomega.com	★★★★	\$110 (500GB)	triple interface	5219
FreeAgent GoFlex Ultra-Portable Drive (pictured) www.seagate.com	★★★★	\$70 (500GB)	single interface	6631



INPUT DEVICES

Keyboards, Mice, Pen Tablets

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Intuos4 Wireless intuos.wacom.com	★★★★½	\$385	pen tablet	6422
Magic Trackpad www.apple.com	★★★★	\$48	trackpad	6436
TactilePro 3 (pictured) www.matias.ca	★★★★½	\$150	keyboard	6421



PRINTERS Laser

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
5130cdn (pictured) www.dell.com	★★★★½	\$1549	LED, color	6009
C544DN www.lexmark.com	★★★★½	\$399	LED, color	4356
Color LaserJet CP2025dn www.hp.com	★★★★	\$349	LED, color	4823



PRINTERS Multifunction

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Artisan 725 Arctic Edition (pictured) www.epson.com	★★★★	\$200	inkjet	6758
Color LaserJet CM1312nfi www.hp.com	★★★★	\$475	laser	5183
Pixma MG5220 www.usa.canon.com	★★★★½	\$99	inkjet	6850

^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

BUSINESS CENTER

News and Analysis about
Macs in the Workplace



Apple Ranks as Most Valuable Brand

Apple has topped Google as the most valuable brand in the world, according to a study released by brand consultancy Millward Brown. The company moved up from third place in 2010 to the number one position in 2011 as its brand value grew from \$83 billion to \$153 billion, the study said.

Google saw its brand value drop in 2011 by 2 percent to \$111.5 billion. It had held the number one position for the last four years. Apple and Google have different business models, with Google focused on free services and open systems, while Apple eschews the open model in favor of what it calls the “integrated model” wrote Nigel Hollis, executive vice president and chief global analyst at Millward Brown.

The BrandZ Top 100 Most Valuable Global Brands ranking is based on both quantitative consumer research and financial analysis. Brands are ranked and their performances analyzed in 13 product sectors such as apparel, beer, technology, and telecommunications services.

Of the top ten brands in the ranking, six were technology and telecommunications companies. Alongside Apple and Google were IBM at number three, Microsoft at number five, and AT&T at number seven.—JOHN RIBEIRO

Parallels Comes to the Mac Mini Server

Parallels (www.parallels.com)—best known for software that lets you run Windows on your Mac—has come out with a product that does the same thing for Mac-based servers.

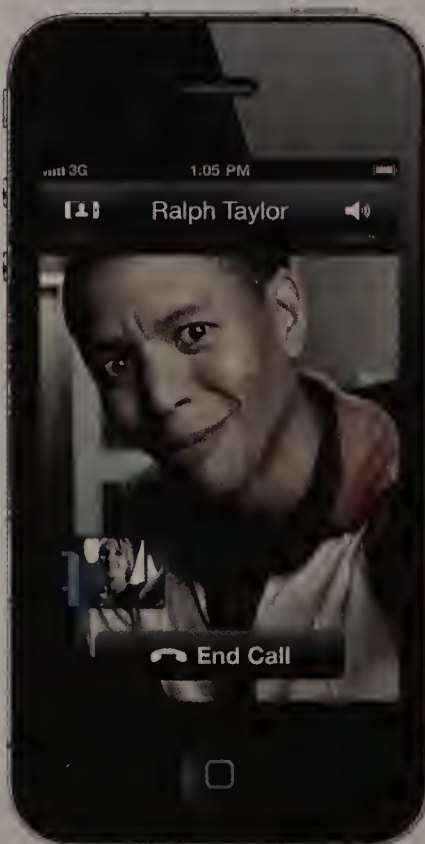
Parallels Server for Mac 4.0 Mac mini edition (\$299; macworld.com/7258) installs on Macs running OS X Server. Once it's up and running, you can then install Windows and Linux server operating systems on the same machine, and those other operating systems can run concurrently with OS X. If you now maintain Windows- or Linux-based servers just to run platform-specific apps such as Microsoft Exchange or customized database or bookkeeping programs, you could instead consolidate everything on a Mac.

The product is particularly targeted at Mac minis that have Snow Leopard Server preinstalled (🔧🔧🔧🔧; macworld.com/7258). It will run on other Macs, but it's tuned for the mini's modest hardware. It can provide two virtual machines per server and up to two virtual CPUs and 4GB of RAM for each virtual machine. By comparison, the full-blown version of Parallels Server for Mac (still available) supports 12 virtual CPUs and 64GB of virtual RAM per virtual machine.

The Mac mini version has also been designed for small- to medium-size businesses that don't have much in-house server expertise. It has an express installation option, which means it can essentially configure itself.—DAN MILLER

Parallels®

Microsoft Buys Skype for \$8.5 Billion



Microsoft agreed to buy Skype for \$8.5 billion, the companies announced. Skype CEO Tony Bates will report directly to Microsoft CEO Steve Ballmer as president of the Microsoft Skype division, illustrating the importance of the deal to Microsoft.

Once the merger is complete, Microsoft plans to add Skype support to its Xbox and Kinect gaming devices and Windows Phone mobile operating system, and to connect Skype users with its own Lync, Outlook, and Xbox Live communications services. During a news conference, Ballmer assured the audience that Skype would also continue to be available “on non-Microsoft client platforms.” Currently there are Skype clients for Mac OS X, as well as for the iPhone and iPad.

Founded by Niklas Zennstrom and Janus Friis, Skype made a name for itself by offering free voice calls from computer to computer, charging to connect calls between computers and the public telephone network. Later it added video chat and software clients for smartphones.—PETER SAYER

No one can put a price on the treasures on your computer.



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PLAYLIST

Everything You Need to Know about iPods, iTunes, and Mac-based Entertainment

First Look: iTunes in the Cloud

How iCloud and iTunes Match could change the way you listen to music

BY CHRISTOPHER BREEN

For as long as there have been rumors about a music-in-the-cloud service from Apple, I've been dreaming about what that service might be like. Now iCloud has been announced, and though it hasn't provided me with everything on my wish list—streaming music and video, remote access to media stored on your computer, and an iTunes music subscription service are all missing—the iTunes in the Cloud feature is a solid step forward for consumers. (For more iCloud-related news, see “Apple's Online Revolution,” *MacUser*, page 10).

What It Is

The key components of iTunes in the Cloud are these: the ability to push new iTunes music purchases to your iOS devices and computers, the opportunity to re-download music that you've purchased from the iTunes Store, and (for an annual fee of \$25) remote access to non-Apple music stored in your iTunes library—including stuff you've ripped or purchased elsewhere. Those three components will break down this way:

You can now push new iTunes music purchases to your other devices, and re-download music that you've already purchased

Pushy Music On your iPhone (or other supported iOS device), you go to Settings ► Store to enable an Automatic Downloads setting individually for Music, Apps, and Books. You later purchase an album on your Mac. That album then downloads to your iPhone when it's connected to the Internet via Wi-Fi or, optionally, 3G. And it can go in the other direction—iPhone

purchases download to your computer or other iOS devices.

Download Music (Again) In the past, if you lost your purchased music because of a computer crash (and the lack of foresight to back up your purchases) you

had to ask Apple if you could pretty-please download them again. Permission was usually granted, but the process was a pain. That roadblock is gone with iTunes in the Cloud. Now you can re-download the unprotected, 256-kbps AAC music you've purchased. But DRM-protected, 128-kbps AAC files will download in the old format; to update to DRM-free,

256-kbps AAC files, you still have to pay 30 cents per track or \$3 per album to get them in the higher bit rate.

You can currently re-download your music on an iPhone 3GS or 4 (GSM model), iPod touch (third and fourth generation), iPad, or iPad 2 running iOS 4.3.1 or later by launching the iTunes app, tapping the Purchased button, choosing the song or album you want to re-download, and tapping the cloud-icon button. You'll see similar Purchased buttons in the App Store and iBooks (when browsing the iBookstore) apps, and they work the same way. Choose content you've previously purchased and download it to your device (this has been true for apps and books for a while, but the process wasn't always very clear).

iTunes 10.3.1 offers a similar scheme on the computer. The difference is that you



can do it all from within a single Mac or Windows iTunes program rather than from separate music, software, and book apps on an iOS device. When you visit the Purchased screen in the iTunes Store, you'll see links to purchased music, apps, and books. Select a category, and the items you've purchased appear on screen. Click a cloud-icon button next to the item you want to re-download, and it downloads to your computer.

There's one catch for albums no longer available at the iTunes Store. According to Apple: "Previous purchases may be unavailable if they are no longer in the iTunes Store." So if you purchased Frank Zappa's catalog before it was pulled from the iTunes Store by the Zappa estate, you can't re-download it.

iTunes Match and the Active Locker There are two schemes for storing music you own in the cloud. The first is to place a copy of the music you own on a server and make only that copy available to you. This is called a *passive locker*. Conversely, an *active locker* keeps only a *record* of the music you own and then makes one copy of that music available to multiple users.

Google's Music Beta and Amazon's Cloud Drive use a passive locker and require that you upload *your own files* to their servers. (When you purchase music from Amazon, a copy of that music is placed on the server so you don't have to upload it.) Apple's \$25-a-year iTunes Match uses an active locker. Much like



iTunes Click the Purchased link in the iTunes Store, and you can see—and re-download—any music, apps, or books you've purchased on any device in the past.

with iTunes' Genius feature, a *database* of the music you have in your iTunes library (purchased music and other music you've ripped or acquired) is uploaded to Apple. Once Apple has the record, you can treat that music just as you can iTunes-purchased music. If you want to re-download it, you can, in 256-kbps AAC format. This is a very big deal for people who ripped a lot of music in the old days as 128-kbps MP3 files.

If tracks in your library aren't among the 18 million available at the iTunes Store, you're welcome to upload them to Apple's servers (but you're limited to 25,000 non-iTunes-purchased tracks).

The outstanding question is whether Apple will put safeguards in place that

attempt to identify pirated music and prevent it from being available to those who have it in their music libraries. For example, music you currently purchase from iTunes is unprotected but is watermarked with the name of the purchaser. If you were to take a track purchased by another person and ask Apple to add it to your online collection via iTunes Match, does the annual \$25 fee also buy amnesty from the record labels?

The Merits of Cooperation

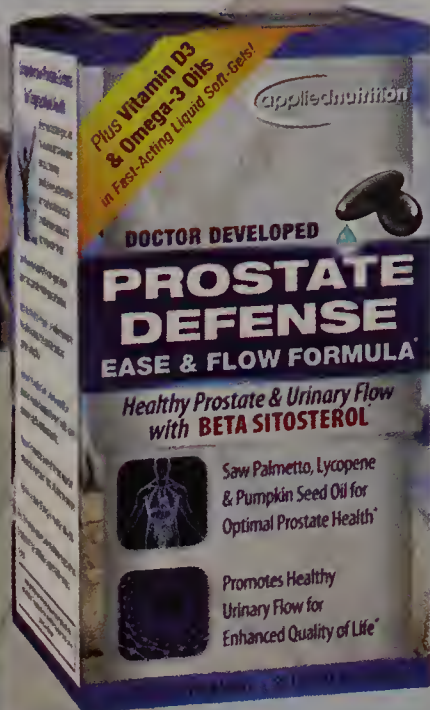
Active lockers aren't a technical challenge. Rather, they've been difficult in the past because of licensing issues, because the music labels insist that companies must have their permission to make single copies of tunes available to multiple users. Apple has been able to secure that permission while Amazon and Google have not. Instead, Amazon and Google have been forced into the passive-locker approach, which, because of the time and bandwidth needed to upload large music libraries, is less than ideal.

Having leapt through these licensing hoops, Apple is free to pursue other goals—streaming of this stored content, for example, rather than simply offering downloads. But Google and Amazon are a lap behind and looking at either coming up with deals of their own or, worse, spending time in court fighting with the labels.



iPad The iTunes app on the iPhone, iPod touch, and iPad (shown here) lets you sort music by song or album, and then re-download what you want on that device.

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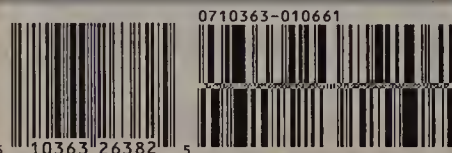
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PLAYLIST

Capture Audio with Soundflower

Record any sounds coming from your Mac—for free

BY CHRISTOPHER BREEN



Selecting the Output In the Sound preference pane, you can choose Soundflower as your output, in order to capture your Mac's audio.

Your Mac is capable of producing sound, as well as playing sound channeled from outside sources (such as devices plugged into the Mac's USB- and sound-input ports, and audio streamed from the Internet). Wouldn't it be great if you could capture some of those sounds so you could listen to them later? Well, you can—for free—thanks to Cycling '74's Soundflower (cycling74.com). Here's how the process works.

Step 1: Download Soundflower

The first order of business is to find a way to grab audio that's playing in one application—a Web browser, for example—and then route it to a second application that can capture that audio. Enter Soundflower. Once you've downloaded this system extension, you're able to channel audio from one application to another. For example, you can take the audio playing in a movie in

your Web browser and pipe it into QuickTime Player's audio input, where you can then record it.

Step 2: Configure Soundflower

After you've installed Soundflower, launch the Sound system preference, and you'll see evidence of Soundflower in the Output and Input tabs. Select the Output tab and choose Soundflower (2ch). Do this, and any sound that would normally come out of your Mac's speakers will now be routed through Soundflower. Any is the key word here. If your Mac makes any sort of sound—not just the sound you're trying to capture, but also e-mail and Twitter alerts, for example—Soundflower will route that, too.

Step 3: Configure Your Capture Application

You have a couple of applications on your Mac that can capture Sound-

flower's audio—QuickTime Player and GarageBand. To configure QuickTime Player, choose File ► New Audio Recording. In the Audio Recording window that appears, click on the downward-pointing triangle to the right of the Record button. From the menu that appears, choose Soundflower (2ch). When you're ready to begin your capture, just click Record.

You set up GarageBand by launching the application and, in the New Project window that appears, choosing Acoustic Instrument. This creates a GarageBand project that contains a single digital audio track. Use the default tempo and time- and key-signature settings that appear in the New Project Template window, and then click the Create button. Open GarageBand's preferences, select the Audio/MIDI tab, and choose Soundflower (2ch) from the Audio Output and Audio Input pop-up menus. Close the Preferences window. If the Info pane for the track doesn't appear, choose Track ► Show Track Info. In the Browse tab of the Info pane, choose Stereo 1/2 Soundflower (2ch) from the Input source pop-up menu. When your Mac emits a sound, you should see it register in the track's meters. Click Record to capture the audio.

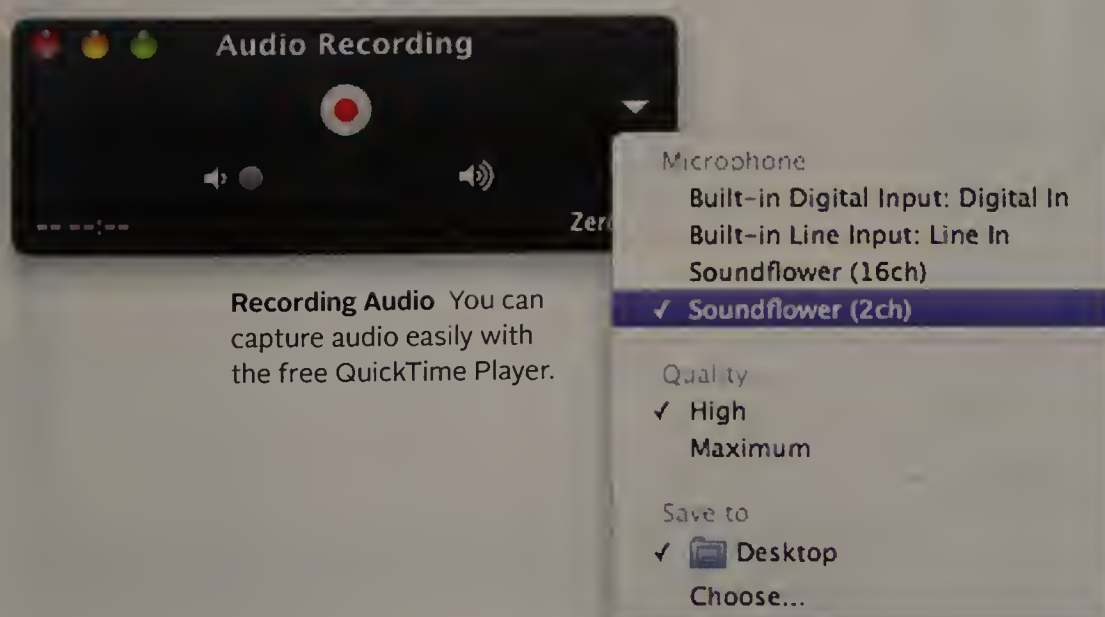
Step 4: Monitor the Mac's Sound

When you choose Soundflower as your Mac's audio output, you can no longer hear audio through attached speakers or headphones. In order for you to

monitor what's happening, launch the Soundflowerbed application (found in /Applications/Soundflower). Click the Soundflowerbed menu-bar item that appears, and choose your speakers or headphones from the menu. Once you've done this, not only will your audio application capture what your Mac plays, but you'll be able to listen to the source audio as well. (You may want to complete this step before setting up QuickTime or GarageBand to capture your audio, but that's up to you.)

Again, any sound your Mac makes will be channeled through Soundflower, so you'll want to disable alert sounds or quit those applications that make them. Additionally, if you change the volume on your Mac, that change will be captured by the application that's recording Soundflower's sound. So lay off the volume and mute controls.

You can avoid both of these issues by using an application such as Ambrosia Software's \$69 WireTap Studio (www.ambrosiasw.com) or Rogue Amoeba's \$32 Audio Hijack Pro (rogueamoeba.com). Each of these applications allows you to capture sound from specific applications. You can adjust the volume or fire off system alerts all you like, without affecting the audio that the applications capture. (If you go the Audio Hijack Pro route, consider purchasing the \$50 Audio Hijack Pro/Fission bundle, which includes the Fission sound editor. WireTap Studio comes with an editor.)



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REVIEWS

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**Bowers & Wilkins
Zeppelin Air** ▷

The original Zeppelin high-end iPod speaker dock impressed us with great sound quality, impressive design, and unique technology. The Zeppelin Air bests its predecessor on each of those metrics, offering even better sound quality, some useful design tweaks, and a number of technological improvements—first among them support for AirPlay—at the same price. Granted, that price is a hefty \$600, and some of that money is surely a premium for the B&W name. But for many listeners, the Zeppelin is the first speaker dock that really can take the place of a home stereo system (macworld.com/7266).

★★★★; \$600; Bowers & Wilkins,
www.bowers-wilkins.com

iHome iA100 ▷

The iHome iA100 is a very respectable alarm clock and speaker system—and one of the few that can accommodate an iPad. Its built-in Bluetooth support lets you make phone calls from your bed, and integration with the company's iHome+Sleep app shows what software and hardware can accomplish when they're combined in a speaker system (macworld.com/7267).

★★★★; \$200; iHome, www.ihomeaudio.com

**SRS Labs iWow 3D for iPod,
iPhone & iPad** △

SRS Labs' surround-sound technology is found in a variety of AV gear, including



TVs, AV receivers, computers, car audio systems, and media players. As such, you may know that the technology expands the sound stage and enhances certain audio frequencies to make music seem more "alive." SRS has brought this same technology to the \$70 iWow 3D for iPod, iPhone & iPad—a dongle with a 3.5 mm jack on one end and a 30-pin dock connector on the other. I'm wary of suggesting that the worse your gear, the better you'll like the iWow 3D, but there's a measure of truth in it. If you're underwhelmed by the sound of the headphones, small speakers, or car audio system you use with your iOS device, you may be thrilled by the sound they produce when attached to this device (macworld.com/7268).

★★★★; \$70; SRS Labs, www.srslabs.com

SOFTWARE

**Toast 11
Titanium** ▷

Despite some rough edges, Toast 11 is a very nice upgrade from Toast 10. In the latest version of the \$100 CD/DVD-burning and video-conversion software, the big changes include a new user interface, built-in tutorials, multiple-burner support, subtitle support, and hardware-assisted video encoding. The simplified interface makes the software easier to work with, and the Sparkle framework makes it more convenient to update. Upgrade prices are still a little steep, especially considering that you can get a new boxed copy online for not much more than the upgrade price. But if you don't mind spending the cash, you'll be rewarded with a better app and more included functionality than before (macworld.com/7269).

★★★★; \$100; Roxio, www.roxio.com



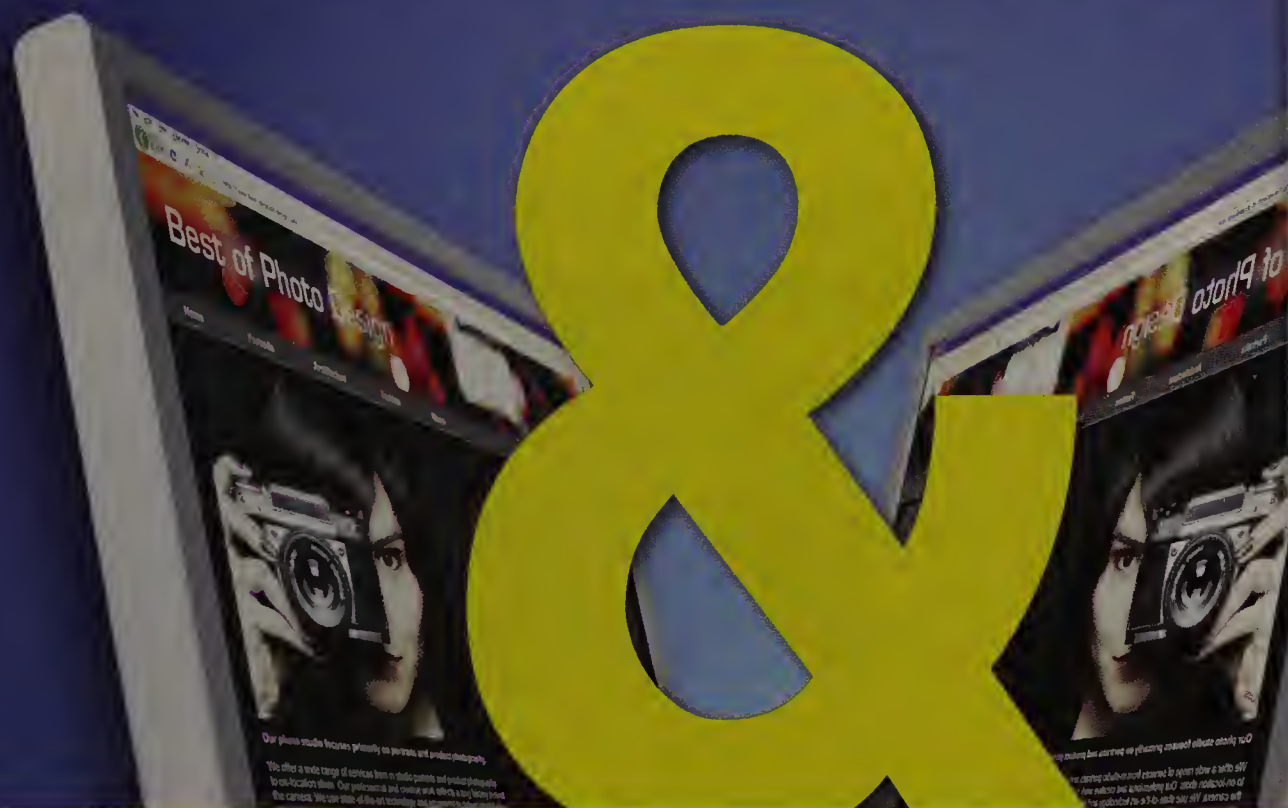
iPods: Current Lineup

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	32GB	★★★★	\$299	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6S54
	64GB	★★★★	\$399	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6S55
iPod Nano	8GB	★★★★	\$149	1.5-inch color	24 hours of music playback; 5 hours of video playback	6S51
	16GB	★★★★	\$179	1.5-inch color	24 hours of music playback; 5 hours of video playback	6S52
iPod Shuffle	2GB	★★★★	\$49	none	15 hours of music playback	6S50

* All prices are Apple's prices. ** In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

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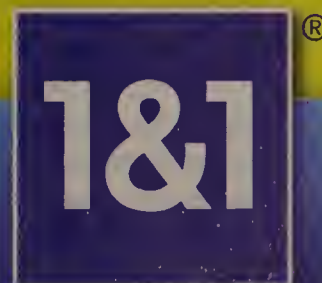
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Strategies for New Aperture Libraries

A guide to making the right decisions when you first import images into an Aperture library

BY DERRICK STORY

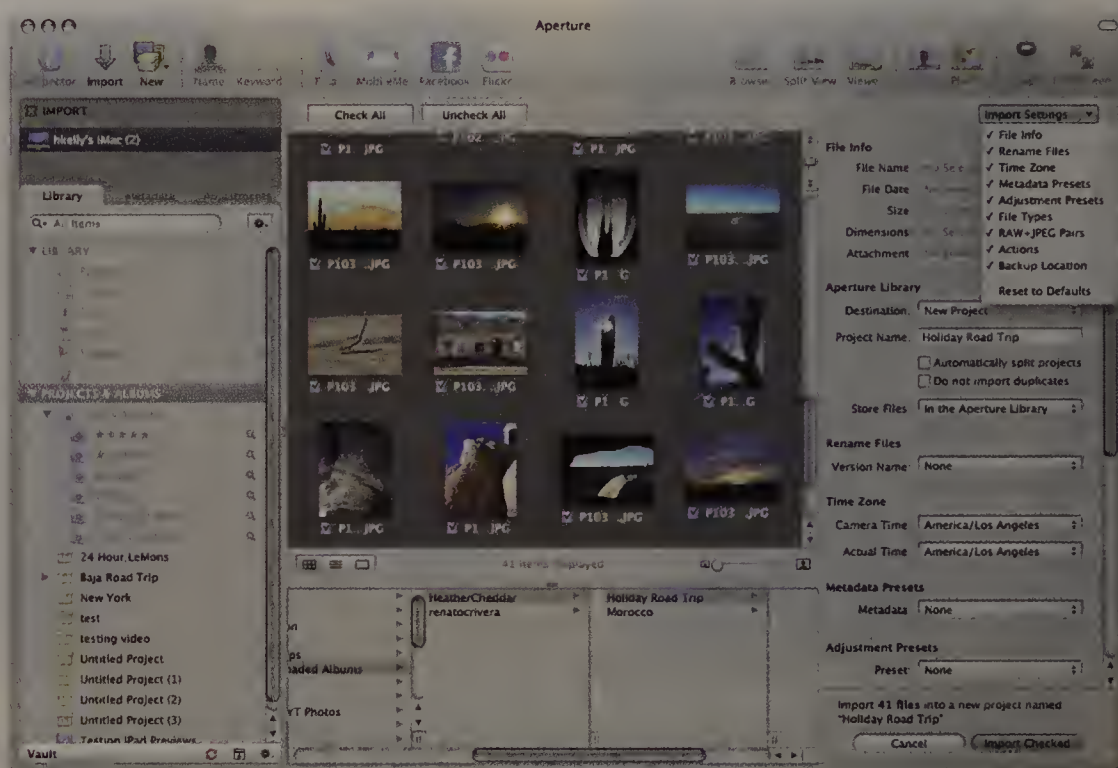
One of the most important tasks you perform in Aperture is importing images. New users often overlook critical import settings that will impact their workflow. Issues such as where your master files live and the data that's going to be added to them are easier to deal with up front rather than once a library is bulging with images.

What requires some advance planning is deciding where the master image files will be stored, and then choosing the right settings to put them there.

Referenced or Managed Library?

The first decision you have to make is where your master photos are going to live. The simplest method is to use the managed library approach. In this case, Aperture copies the master files from your memory cards into its Aperture Library container. By default, the container lives in your Pictures folder, but you can move it anywhere.

The advantage of this approach is that when you back up your Aperture library, everything is in one place: your masters,



Key Import Choices Aperture's Import window shows existing projects and albums on the left, navigation for picking files to import in the middle, and import settings on the right.

the Aperture container and on, say, a separate hard drive that's connected to your Mac. With this approach, your Aperture container grows at a slower pace, because it's generating only previews,

memory cards, you should opt for the referenced library approach.

When you connect your camera or card reader to a Mac with Aperture open, the Import window box will appear. In the Import Settings pane on the right, you'll see an area labeled Aperture Library. Look for the Store Files pop-up menu, and from it choose the location for your master files.

To create a managed library, select In The Aperture Library. For a referenced library, select Choose from the pop-up menu and navigate to the location where you want the files on the memory card copied. A second pop-up menu will appear, letting you choose a subfolder. I recommend selecting Project Name so that your master image folders will have the same name as their corresponding projects in Aperture.

Choose the right import settings when you start a new library to avoid problems later.

previews, metadata, and all the work you've done. It's neat and tidy.

The disadvantage, especially for people who capture videos or raw images, is that your Aperture container can swell to hundreds of gigabytes, putting a stranglehold on your hard drive.

This is why some prolific shooters opt for a referenced library instead. This method keeps your master images outside

thumbnails, and data. The big files are stored elsewhere. The disadvantage of a referenced library is that you have to back up both your Aperture container and the various places where your master files live.

The general rule of thumb is that if you're a light shooter or someone who captures mainly in JPEG format, go with a managed library. If you're a photographer who shoots in raw mode and fills up big

Project Destination and Name

All photos added to Aperture must live in a project. When you import, you can add images to an existing project or create a new one. This is where it pays to have a clear philosophy on your library structure. In my case, I create a new project for all major shoots. The projects are grouped within folders to keep clutter to a minimum.

In the Import window, choose New Project in the Destination pop-up menu. In the field below it—Project Name—I typically use a standard naming convention of *mm-yy-name* for the new Project. If you want to add the images to an existing project, navigate to the desired location in the Library pane on the left side and click on the name of the project where you want the images to reside. Aperture will automatically fill in that name in the Destination field.

More Import Options

There are a wealth of customizable options under the Import Settings pop-up menu in the upper right corner. Here's a bit of detail on some of the options there.

File Info At first glance, File Info seems like just a basic info box, but additional information will appear here when you start working with other options such as File Name and File Date. To see the File Info details for any photo you're importing, just click on the image's thumbnail in the import browser.

Rename Files During import, you can instruct Aperture to append those filenames or replace them altogether. In the Version Name menu, you can choose from a handful of preset formats or configure your own preset.

Time Zone If you forget to adjust a camera's internal clock when you travel to different locations, your time stamp will be incorrect for the entire trip. Fix this oversight via the two pop-up menus in the Time Zone area. In the first, choose the time zone your camera was set to. In the second, select the actual time zone where you took the pictures. Aperture will adjust the time stamp for you.

Metadata Presets One of the most powerful features in the Import window, the Metadata Presets area allows you to add custom metadata to your images as they're loaded into Aperture.

Adjustment Presets In the Adjustment Presets area, you specify changes to, say, white-balance settings, and Aperture will make those changes for you at import.

File Types When you have a variety of media on your memory card, such as movies and still images, you may want to separate them during import. You can quickly sort through these different types by checking the appropriate box or boxes in the File Types area.

Raw+JPEG Pairs If you capture images in both raw and JPEG formats at the same time, you can manage which file type is imported and which is the master by enabling the Raw+JPEG Pairs option. If you're shooting in raw mode, keep in mind that Aperture automatically generates a high-quality JPEG preview for each raw shot after import.

Actions Aperture Actions let you run AppleScripts on images as you import them into Aperture.

Backup Location Send your master files to two separate locations during the importing process with the Backup Location setting.

Tips for Managing Import Settings

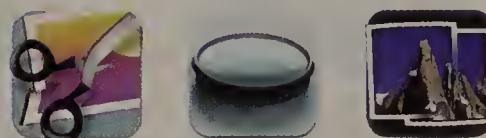
You can turn these individual controls on and off via the Import Settings pop-up menu in the upper right corner. To keep your Import window uncluttered, decide which controls you need, turn them on, and then leave everything else unchecked. This will help you focus on the images and the proper data to go with them.

Also, take a few moments to create custom Metadata Presets—such as one for your personal work, one for a specific client, and so on. By doing so, you're more likely to have important information attached to your images, because it was so easy to do during the import process.

Derrick Story is the Aperture instructor for Lynda.com, which currently features over eight hours of online training for his latest title, *Aperture 3: Essential Training*.

Edit Images on Your iPad

BY BEN LONG



With Apple's iPad Camera Connection Kit, I can use my iPad to back up my photos on the go. I use these apps for editing on the iPad.

I perform the bulk of my edits in **PhotoGene** (★★★★; macworld.com/6575), an excellent image editor for the iPad and the iPhone. Because of the iPad's small screen size, touch-based interface, and lack of screen profiling, you shouldn't expect to do heavy image editing on it. But cropping, basic tonal adjustments, and white-balance correction are definitely doable. You can use sliders to alter exposure, contrast, saturation and temperature. A full Levels adjustment, with Histogram, makes more-sophisticated tonal adjustments a snap; and for people who prefer it, there's an excellent Curves tool.

Unfortunately, PhotoGene won't let you perform selective edits. For that, I use **FilterStorm** (\$4; filterstorm.com). In FilterStorm, you can use a paintbrush to paint on any edit, making it easy to selectively alter any part of an image. FilterStorm also provides a channel mixer for performing black-and-white conversions, something else PhotoGene won't do. If you'd prefer to choose a single editor, go with PhotoGene. I keep them both around, and turn to FilterStorm for black-and-white conversion and selective editing.

AutoStitch (★★★★; macworld.com/5938) is an excellent panoramic stitching app for the iPhone that runs just fine on the iPad. There's little to say about it other than it works, and it works fast and well. Point it to the images in your panorama, and it'll stitch them into a seamless, very wide image (assuming you've done a good job of exposing and panning your original shots).

Acorn Updates Intuitive Image Editor

The latest version of the popular Acorn image editor adds new styles, filters, and tools

BY BEN LONG

REVIEW

Acorn 3.0, the latest version of Flying Meat Software's popular image editor, is a full-featured application with a lot of high-end features, including raw conversion, multiple layers, and vector graphics. What's not entirely clear is who the program is aimed at.

Taking in the Tool Palette

Acorn offers an interface that is very streamlined compared with Photoshop and Photoshop Element's large assortment of palettes and toolbars. In Acorn, your document appears in one window, and all your tools appear in one wide palette. Though this is a nice idea conceptually, it can make for a rather inefficient use of screen space.

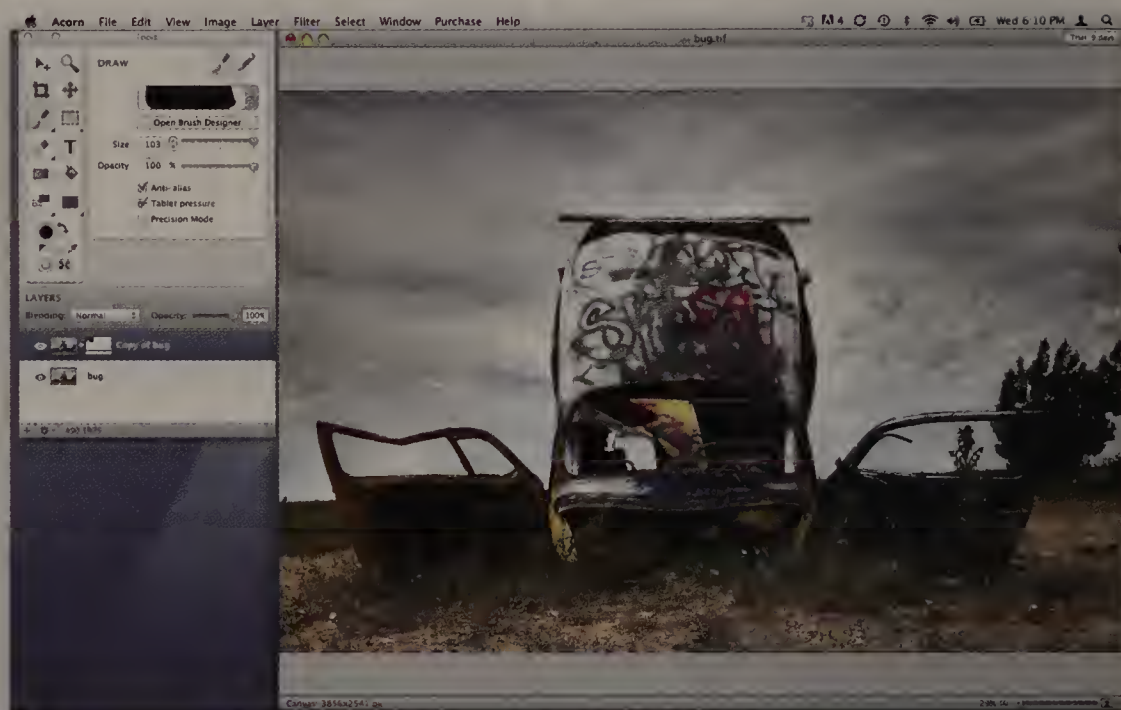
The tool palette contains navigation tools, a cropping tool, a text tool, drawing tools, a gradient tool, a paint bucket, shape tools, a clone tool, and a color picker. When you click a tool, the right half of the toolbox fills with parameters and tool variants.

At the bottom of the tool palette sit the layer controls. Acorn offers fairly sophisticated layer controls, which include the ability to easily duplicate layers and change their blending mode and opacity.

Good compositing requires good selection tools. Acorn already had the usual lasso, marquee, and magic-wand tools, and version 3 now offers a QuickMask feature, which lets you define a selection by painting. You can create layer masks in the Layers palette, for more-sophisticated, nondestructive compositing.

Special Effects and New Features

Acorn includes a huge assortment of effects filters—everything from distortions and color and tone alterations to stylized effects such as comic-book-like edges and kaleidoscopic effects. New to version 3 is the ability to assign many of these to a layer as a Layer Style. What's nice about the Layer Styles is that they're



All-in-One Tool Palette Acorn 3 has packed its many tools into one palette. The palette takes up a good chunk of screen real estate, but you always know where to find a tool.

nondestructive—you can alter them or remove them later, and you can control them with a layer mask.

Other new features include more-sophisticated gradients; the ability to rotate text and shape objects; and the ability to convert shapes to Bézier objects, with all the editing abilities you expect from a full-fledged vector-drawing program.

Photoshop support has been improved, and layered files are supported, though I found that importing a complex layered Photoshop document didn't always work properly, with the resulting image being muddled. Acorn supports raw files, and offers a very basic assortment of conversion controls for such files. However, the program bogs down if you hand it a very large image.

Macworld's Buying Advice

There's some very good engineering underlying Acorn, and there are many effective interface ideas, such as the ability to create a chain of filters that you can save as a preset. However, the target audience for the program isn't clear. Acorn lacks

some of the simple editing tools novices need, but its advanced features aren't sufficient for experienced editors.

Acorn provides a condensed set of editing tools, but also has more than a hundred Filter effects, including filters for such things as circular and lozenge-shaped distortions, halftone effects, and sixfold rotated tiling. Whether Acorn is the application for you depends on how well the selection of tools meets your needs.

For \$30 more, you could get Photoshop Elements 9 (★★★★½; macworld.com/7298) and enjoy more-powerful raw-file conversion and image editing. Or for \$20 less you could get the speedier Pixelmator (★★★★½; macworld.com/7299). But for users who want quick and easy access to the types of tools Acorn provides, it's hard to beat the price. Acorn 3 requires OS X 10.6.6 or higher.

★★★★; \$50; upgrade from version 2, \$20 (upgrade not available through the Mac App Store); Flying Meat, www.flyingmeat.com; full review, macworld.com/7297

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Make Time-Lapse Videos with Automator

BY CHRISTOPHER BREEN

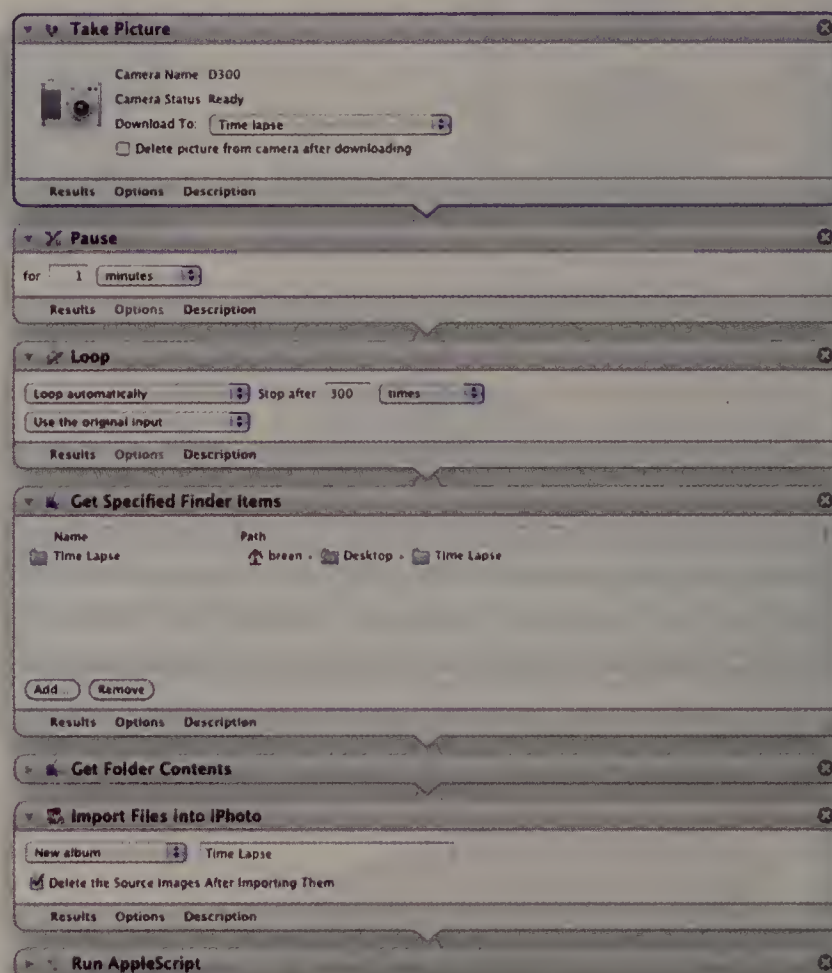
Movies created through time-lapse photography can be stunning. While there are a variety of applications that allow you to create time-lapse movies of your own, none of them are built into Mac OS, except Automator. The following workflow allows you to automate not only the shooting of your images, but their conversion into a movie.

Set Up Your Template

Before you launch Automator, create a folder on the desktop called 'Time Lapse'. Now launch Automator, and from the template sheet that appears select Application and click Choose. In the resulting workflow window, add these actions: Take Picture (under Photos), Pause (Utilities), Loop (Utilities), Get Specified Finder Items (Files & Folders), Get Folder Contents (Files & Folders), Import Files Into iPhoto (Photos), and, lastly, Run AppleScript (Utilities).

For the Take Picture action—and the workflow itself—to work, you must have a camera compatible with that action. When you plug your camera into your Mac and switch it on, this action will display your camera's name, if it's compatible. From the Download To pop-up menu, choose Other and then navigate to your Time Lapse folder. If you're concerned about your camera's media card filling up during the shoot, enable the Delete Picture From Camera After Downloading option. It's best to attach your camera to a power supply rather than depending on a battery.

In the Pause action, choose an appropriate interval between pictures—30 seconds or 1 minute, for example. Configure the following Loop action so that the first pop-up menu reads Loop Automatically, the second reads Stop After X Times (where X is the number of shots you'd like to take), and Use The Original Input is selected in the last pop-up menu.



Automated Photography In Automator, combine the Take Picture, Pause, Loop, Get Specified Finder Items, Get Folder Contents, and Import Files Into iPhoto actions with a custom AppleScript (which you can get at macworld.com/7303) to make automated time-lapse videos.

Clean It Up

Drag the Time Lapse folder you made on your desktop into the Get Specified Finder Items action. Follow up with the Get Folder Contents action. In the Import Files Into iPhoto action that appears, choose New Album from the pop-up menu and call it 'Time Lapse'. To tidy up your Time Lapse folder, enable the Delete The Source Images After Importing Them option.

In the last action—Run AppleScript—insert the text found by following the link in the sidebar on this page. Note the "seconds per frame" comment in the AppleScript. If you find that value (0.5, or half-a-second) too short, you're welcome to change it. Likewise you can change your movie's width and height values.

Note, too, that for the AppleScript to work its magic, you must have the Enable Access For Assistive Devices option enabled in the Universal Access system preference.

How It Works

With this workflow, Automator is ordering your tethered camera to take a picture and save it to the Time Lapse folder. The workflow waits for the period of time entered in the Pause action. The Loop action tells the workflow to repeat those first two steps a certain number of times—300, for instance. After the specified number of pictures are taken, the next actions import the camera's images into iPhoto. And the AppleScript invokes iPhoto's Export command, selects the QuickTime tab, exports the images as a movie, and saves the results to the desktop as timelapse.mov. To start, place your camera on a tripod, attach it to your Mac, and run the Automator application.

Get the AppleScript

At macworld.com/7303, get the text you need for the Run AppleScript action.

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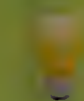
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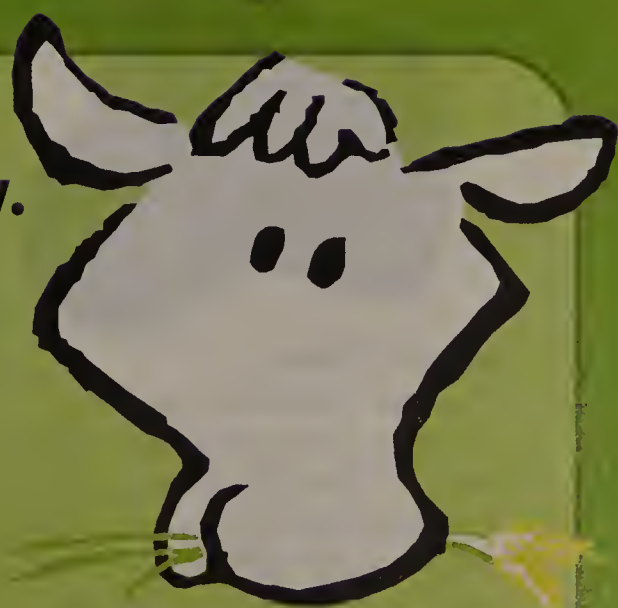
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REVIEWS

Hardware, Software, and Accessories
for Making and Managing Photographs



HARDWARE

Nikon Coolpix S9100 ▴

Despite having no manual controls and no raw shooting mode, the Coolpix S9100 is the rare camera that's bound to please novices and experienced shooters alike. It has a great blend of creative automated controls and overall versatility. The Coolpix S9100 is lighter and slimmer than most pocket megazooms on the market, even while packing an 18X zoom lens. If you're looking for a long-zoom camera that can fit in your pocket, is very easy to use, rarely takes a bad photo, and never gets boring, the Coolpix S9100 is among the best options we've tested (macworld.com/7300).

★★★★; \$330; Nikon, www.nikon.com



Nikon D7000 ▴

The Nikon D7000 DSLR has a full complement of advanced and automatic features, a 16-megapixel CMOS sensor, new 3D color-matrix metering, good low-light performance, full 1080p HD video, full-time autofocus in video and Live View, and under-the-hood improvements that make it an extremely appealing DSLR for enthusiasts and professionals. Expect a learning curve, though, particularly if you want to take advantage of everything this camera has to offer. It's easy to get lost when

digging deep into functions like autofocus and the camera's multiple-choice menu. But it's well worth the effort to explore the D7000's many options. Beginners may want to check out entry-level cameras such as the Nikon D3100 or the Canon T3i instead (macworld.com/7301).

★★★★½; \$1200; Nikon, www.nikon.com

Olympus XZ-1 ▴

The marquee feature of the Olympus XZ-1 is its f/1.8 lens. The camera offers that very wide aperture at its widest angle, as well as an impressive f/2.5 maximum aperture at full telephoto. This camera has a great range of features, but it leaves quite a bit

to be desired in auto mode, and accessing most of its features requires a fair amount of menu-diving. Some of the camera's more-enticing features—the control ring around its lens and its manual focus controls, in particular—are better implemented in some of its direct competitors (macworld.com/7302).

★★★★½; \$500; Olympus, www.olympus.com



Top Products YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



DIGITAL CAMERAS SLR

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
60D www.canon.com	★★★★	\$970	18-megapixel	6805
a55 www.sonystyle.com	★★★★½	\$740	16.2-megapixel	6780
A580 (pictured) www.sonystyle.com	★★★★	\$870	16.2-megapixel	6807



DIGITAL CAMERAS Point-and-Shoot

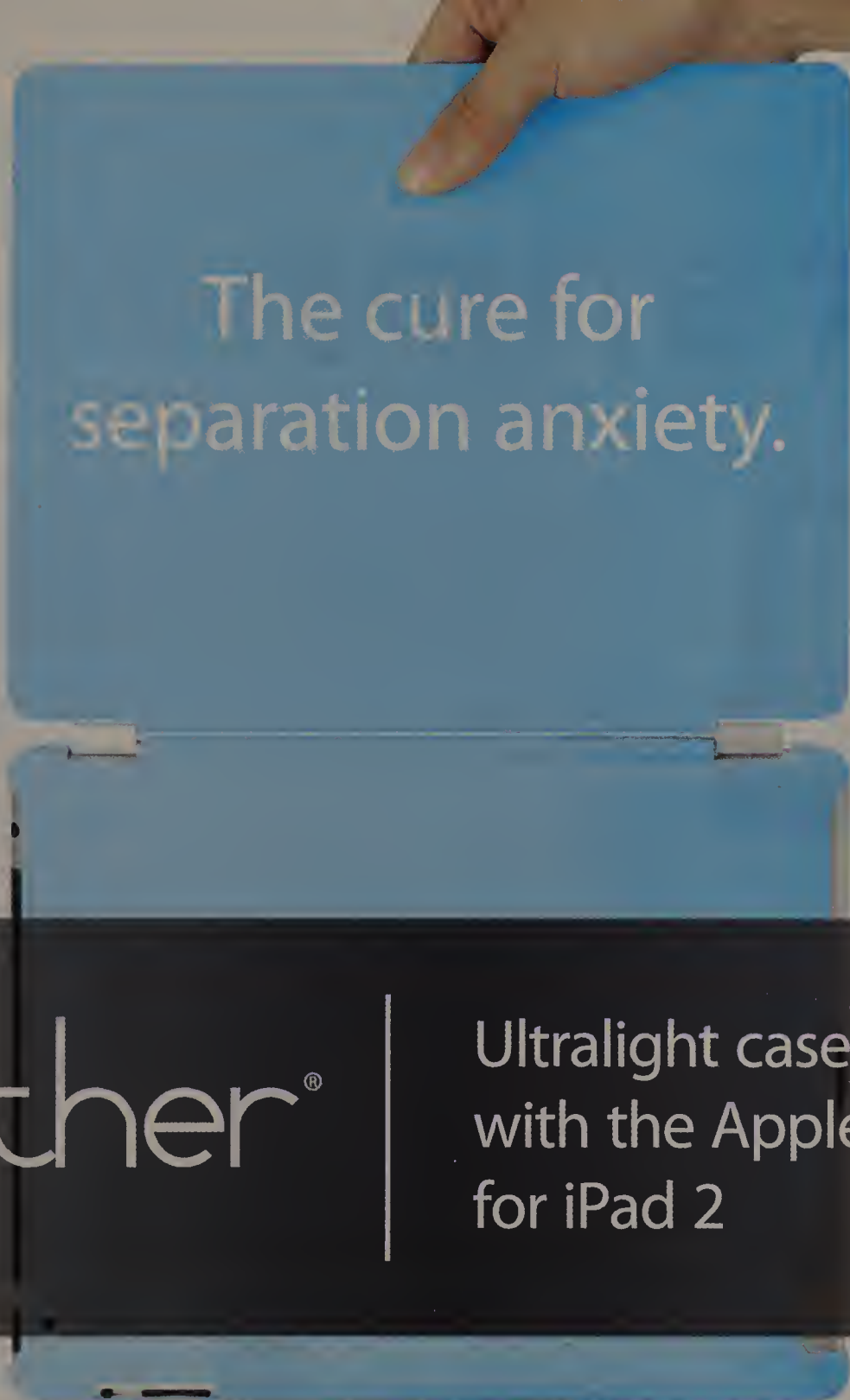
PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
HZ35W (pictured) www.samsung.com	★★★★	\$327	12-megapixel	6331
PowerShot S95 www.canon.com	★★★★	\$389	10-megapixel	6804



PRINTERS Inkjet

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Officejet Pro 8000 Wireless (pictured) www.hp.com	★★★★	\$94	document, photo	6017
PictureMate Dash PM 260 www.epson.com	★★★★	\$106	snapshot, photo	5609

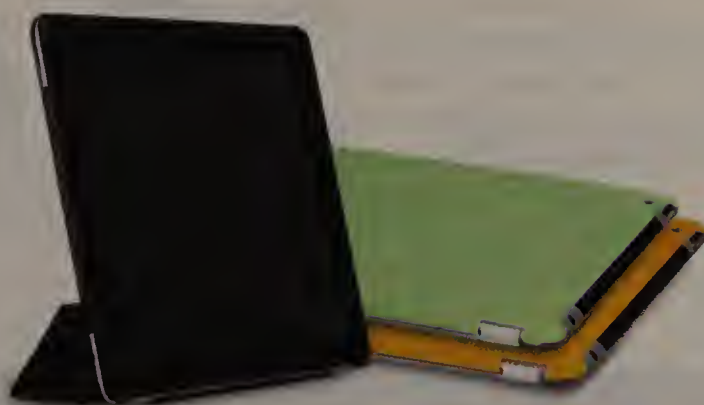
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Macworld **HOT STUFF**

What We're Raving
about This Month



Aluratek Photo Frame

Digital photo frames have been on the market for years, and there hasn't been much in the way of innovation in design and functionality. But the need for a handsome frame that shows off your many digital photographs definitely exists, and this slick little frame accomplishes that task with aplomb. The \$60 Aluratek ADPFO8SF 8-Inch Digital Photo Frame rotates through your favorite photos on an 800-by-600-pixel LCD screen. You can position the frame horizontally or vertically, and it will automatically rotate your images accordingly. Its internal memory is lacking, but that's fine because the frame has built-in SD and SDHC card slots, and it can even connect to a USB hard drive or thumb drive. All you need to do is fill up an old drive with all of your favorite shots of the past few years and tuck it behind the frame (\$60; aluratek.com).—SAM FELSING

Carousel

Carousel is a Mac-based Instagram client that makes it easy to browse images you've taken with the Instagram iPhone app. This app presents a vertically scrolling roll of photographs; you can navigate between your Instagram feed, popular photos, and your own photo roll. You can click to see who's liked a photo, along with any comments other people have left on a photo. The client sports four different themes, lets you choose how frequently it checks for new photos, and can trigger Growl or display a Dock badge when new photos arrive (\$5; carousel.mobelux.com).—LEX FRIEDMAN



Skooba Camera Strap

Trucking a camera around for long shoots or on trips can be a strain on your body, especially if you're shooting with a big lens. The Skooba Superbungee Camera strap is a slick strap that disperses the weight of your rig to make your gear feel less heavy. It also adds ample cushioning for your neck and shoulder. The texture of the strap prevents any slipping and sliding, and it's easy to adjust on the fly, so you can switch positions quickly. The Skooba camera strap fits most standard camera-strap attachment points (\$12; skoobadesign.com).—HEATHER KELLY



Camera Connection Kit for CF Cards

Apple's official iPad Camera Connection Kit gives photographers two options for getting photos onto their iPads: from their camera over USB or directly from an SD card. But it's limiting for photographers who use CompactFlash cards. This similarly named, unofficial dongle solves the problem by allowing you to upload from CF cards. (\$30; store.micgadget.com).—HEATHER KELLY



RING FLASH ADAPTER

Many beginner DSLR owners stick to natural light, a built-in pop-up flash, or just a traditional external flash mounted on their camera's hot-shoe. More-advanced equipment can seem intimidating, and the prices sky-high. The Ring Flash Adapter is an amateur-friendly gizmo that attaches to your external flash. It's a reflector, not a separate light, and the resulting light is perfect for portraits and parties. The adapter drops down and loops around your camera lens. When you shoot a photo, it diffuses the light from the flash, creating an even glow and studio-like effect on your subject (\$40; photojojo.com/store).—HEATHER KELLY



MacMania 14



Rhine River, April 12th – 19th, 2012

InSightCruises.com/Mac-14

The cruise fare is approximately \$3,674 for either a Category A or B cabin, per person and includes five excursions. The MacMania Program costs \$1,195. Taxes and fees are \$199 per person. Gratuities are €105. Program subject to change.

For a full listing of seminars visit InSightCruises.com/Mac14-seminars

Are you working to figure out how new features can help you tell your story and share your experiences? Maybe looking to lose some of your piles of paper without losing your marbles? Or just tempted to stay in your Mac comfort zone and knowing it's not really an option?

MacMania 14 gives you tools to ace the Apple learning curve.

Immerse yourself in Chris Marquardt's 4-part photography course and get the tools and views to bring your photos alive. Color outside the lines with Joe Kissel, mastering the nuts and bolts of the iPad, then learn what serious geeks know about the iPad. Tune in to Josimar King, as he'll share how to seamlessly sync your iDevices, demystify media formats, and get you to elicit the best from iPhoto and iMovie.

MacMania 14 is a savvy community of experts and users with the latest how-

tos, a love of learning, and a playful approach to serious business. MacMania 14 has Mac veterans who are masters of Apple technology, full of tips and tricks, taking their skills up a notch AS WELL AS newbies who have the basics but looking to streamline workflow, get their devices in harmony, and enjoy life.

Curious? Please join us on MacMania 14. You can experience everyone's favorite, Amsterdam, the historical and lovely Rhine Valley, picturesque French Strasbourg, and southwestern Germany, "the old country" to many Amish and German Americans. The elegant and comfortable riverboat AMACello is the platform for our explorations of the wonders of Mac and Apple devices, and Northern Europe.

Sign up for MacMania 14, soak in the expertise, commune with the MacManiacs and get an indepth look at image making and story telling. You'll be humming "Danke Schoen" in no time.

SEMINARS

The conference fee is \$1,195 and includes all 15 seminars below. You may take every class — i.e., there will be no overlap as only one class will be going on at any one time. Classes only take place when we're cruising, between 8:30am and 7:30pm.

JOE KISSELL

- Getting to Know Your First iPad
- Coloring Outside the Lines with Your iOS Device
- iPad Kung Fu for the Extreme Mac Geek
- Speeding Up Your Mac

CHRIS MARQUARDT

- Introduction to all four sessions
- Session 1: The Perfect Picture?
- Session 2: The Tech Side of Photography
- Session 3: Post Processing
- Session 4: The Creative Side of Photography

JOSIMAR KING

- iTunes, the Center of Your Universe
- All About Media. Once and For All.
- Advanced iPhoto and iMovie
- Not For Dummies
- iWork Double Vision
- Let Me Tell You a Story...

WALLY CHERWINSKI

- Video to Go



One, two, or three nights in Paris

ONE NIGHT IN PARIS

April 19, 2012 (post-cruise). Includes a cabaret dinner show. (\$899 pp, based on double occupancy; \$1,399 for singles).

Transfer smoothly from our ship in Basel to Paris (via bus then high-speed train) and our hotel, Le Meridien Etoile (or equivalent). We'll regroup, and have a classic evening of cabaret, including dinner and drinks, with a variety performance of song and dance, jugglers and comedians.

TWO NIGHTS IN PARIS

April 19–April 21, 2012. Includes the entire one-night package plus the Paris City Tour and evening in Montmartre (pictured above) with dinner. Enjoy Parisian panoramas and a visit to Notre Dame, a leisurely afternoon, and an evening of exploring and dining in the bohemian Montmartre neighborhood. Walk in the steps of Picasso, Degas and Van Gogh, discovering Montmartre's legendary charm. (\$1,399 pp, based on double occupancy; \$1,999 for singles).

THREE NIGHTS IN PARIS

April 19–April 22, 2012. Includes the entire two-night package plus Seine cruise and Eiffel Tower tour. (\$1,599 pp, based on double occupancy; \$2,399 for singles).

See the heart and soul of Paris in the morning light on a Seine River cruise. Then we'll see the City from a different angle from the 2nd level of the Eiffel Tower.

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Ease into Amsterdam

A FULL DAY IN AMSTERDAM

What makes Amsterdam a perennial favorite? InSight Cruises invites you to find out on a private, full-day tour of "the Venice of the North". Discover the unique charms of Amsterdam as you get oriented with a coach tour of cultural touchstones. Then anchor your vacation album with images from your cruise through the city's tree-lined UNESCO World Heritage canals, getting a superb view of 17th century gabled homes, old bridges, and bicycles and more bicycles. We focus on

the finest, savoring an Old Dutch welcome and contemporary cuisine at one of Amsterdam's best restaurants, and then paint ourselves into the scene at the Rijksmuseum with a visit to "The Masterpieces" exhibit. Start your MacMania memories and fun and join us! \$275 pp.

On Alert: Customize Your Mac's Sounds

Personalize your operating system by creating custom alerts for your Mac

BY CHRIS MCVEIGH

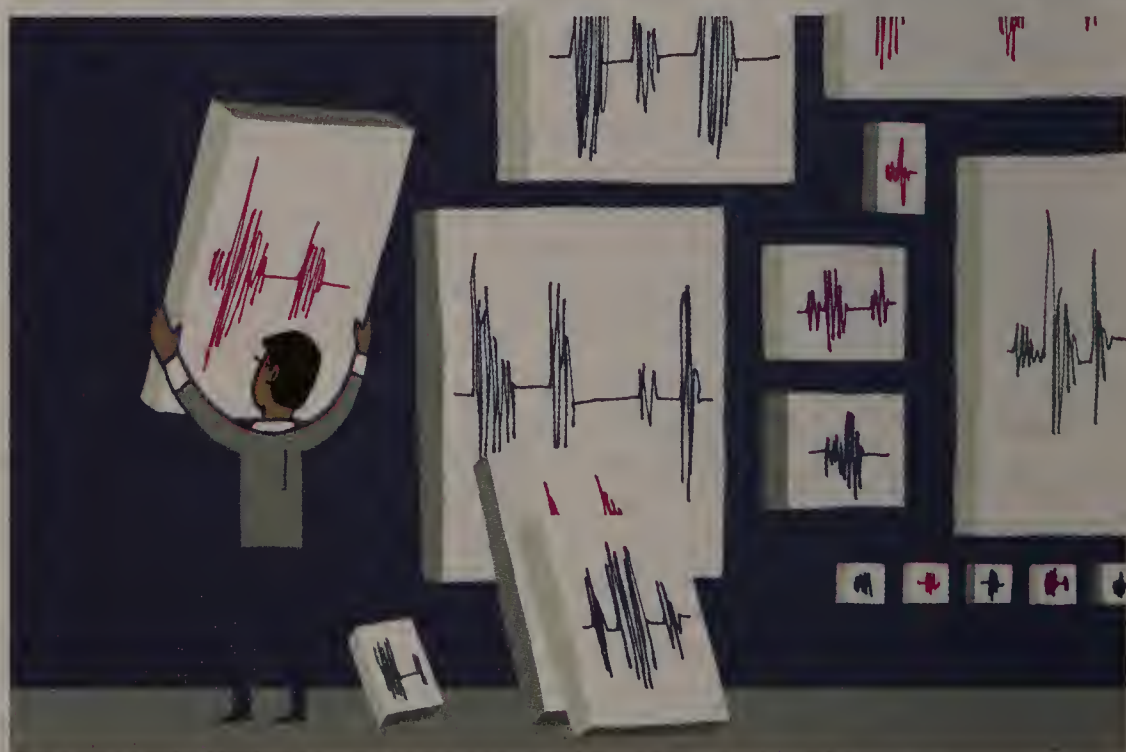
After you've used Mac OS X for a while, its built-in alert sounds can get downright grating, as can many of the sounds you hear in Mail, iCal, and iChat. Happily, creating a custom alert sound and adding it to your system isn't too complicated.

Most alert sounds should be short, subtle, and easy to tolerate even if they repeat multiple times within a few seconds. Here are some easy ways to capture new sounds.

Record New Sounds

The easiest way to find a new sound is to create it yourself.

QuickTime Player Open QuickTime Player and choose File ► New Audio Recording. On the right side of the Audio Recording Window a small arrow button points down. Clicking this arrow reveals a pop-up menu that lets you choose a microphone (either the one built into your Mac [Built-In Digital Input: Digital In] or a high-quality external mic [Built-In Line Input: Line In]), the quality (choose Maximum), and a default location for



encompass only the alert's waveform. Click Play to preview the new, shortened sound; if you're happy, click Trim. Now choose File ► Save As. Name the audio file and save it to your desktop.

Voice Memos App (iPhone or iPod Touch) Once you've captured a sound,

Apple's GarageBand '11 GarageBand is particularly fun, because it lets you create simple alerts using musical notes from a huge range of software instruments. OS X requires that all alert sounds be AIFF (uncompressed Audio Interchange File Format) files, and OS X 10.6's QuickTime Player can't save audio in this format. So you'll need to pass your audio files through another application before the operating system can use them.

Convert Your Sound

When it comes to converting the sound you recorded, you have a choice.

Use iTunes First, drag the clips into iTunes to add them to your Library. Now choose iTunes ► Preferences. Under General, you will see a section for "When you insert a CD." Adjacent to it is a button called Import Settings, and clicking it allows you to change the app's audio

GarageBand is particularly fun, because it allows you to create simple alerts from a huge range of software instruments.

saving the file (choose the desktop). Click the Record button (the red circle), create your sound, and then click Stop (the black square). Now click Play (the large right-facing arrow) to review the sound.

Fine-tune your sound by choosing Edit ► Trim, and you'll see a small waveform representing the audio. Drag the yellow bars at each end so that they

tap the list button in the bottom right of the screen. Choose the sound you just recorded, tap Share, and e-mail it to yourself. Here, too, you will need to trim the audio clip to eliminate silence before and after the alert sound. Open the sound file with QuickTime Player, use the trim feature to resize it, and save the file to your desktop.

conversion method. Choose AIFF Encoder from the first pop-up menu and click OK; click OK again to return to your library.

Find the newly added audio clips, and Shift-click each one to select them all. Now choose Advanced ► Create AIFF Version. The AIFF duplicates of the files will appear in seconds. Drag these files to the desktop, and you'll see they have an .aif extension.

Use GarageBand You can also use GarageBand to convert your sound files. Open GarageBand and, if necessary, choose File ► New. Double-click Voice (under New Project), give the "song" a name, and click Create. Now drag your sound clip into the GarageBand workspace, making sure the colored block representing the audio sits as far to the left as possible. Choose Share ► Export Song To Disk, deselect the Compress option, and click Export. You'll again be asked to name and save the file—save it to the desktop. That file will be an AIFF file.

Add Sounds to Your System

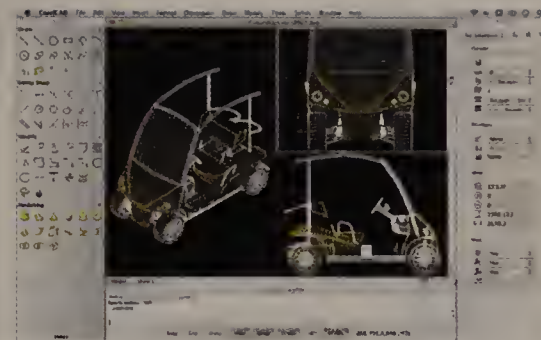
Popping the new sounds into the OS is easy. In the Finder, choose Go ► Home

(this home folder is also known as your user folder). Double-click your Library folder, and then find and open the Sounds folder. Drag and drop the audio files into this folder to make them available to all applications that use alert sounds.

If you want the sounds to be available to your family members' user accounts, you can do this: Option-drag the audio files into the shared user folder at Macintosh HD/Users/Shared. This will place a copy of the file in the shared folder. Your family members can then collect the custom alert sounds from this folder and drop them into their own Sounds folder at *userfolder/Library/Sounds*.

Adding custom alerts allows you to personalize your system in an entirely new way, providing a much richer (and potentially more intuitive) experience with your Mac. And if you've created an alert sound you're particularly proud of, be sure to share it with others.

Chris McVeigh is an author, illustrator, and toy photographer based in Halifax, Nova Scotia.



Corel Enters CAD Arena with CorelCAD

BY JACKIE DOVE

Corel has introduced CorelCAD, a new cross-platform CAD program targeted at architects, engineers, and a variety of general manufacturing enterprises. This package, created in conjunction with longtime CAD developer Graebert GmbH, delivers native support for DWG (the standard CAD file format) and the ability to navigate between 2D and 3D design environments in cross-platform workgroups. Alongside a large set of 2D drawing features, CorelCAD includes a set of 3D solid-modeling tools.

With this new product, Corel offers CAD users what it says is an intuitive environment, with familiar command bars, aliases, menus, and toolbars.

CorelCAD supports a wide range of file formats, lets you customize tools, and easily integrates into existing design workflows. The program can open and save DWG files, and uses DWG as its native file format. It also supports DXF and DWF files up to AutoCAD 2010 file-format versions. Users can save drawings back to R12 DWG or DXF format, and recover DWG and DXF files in all format versions. The program can export to PDF, ACIS 3D, DWF, and other formats.

CorelCAD is available for \$699 and works with Intel Macs running OS X 10.5.8 or later. Commercial and academic volume licenses are available. Download a free, trial version at www.corel.com.

DORIS DAY FONT IS FUN AND FLIRTY

Bored with the usual characters at work? Cue Doris Day, a stylish little brush script from designer Mario Arturo. Named for the patron saint of romantic romps, Doris Day arrives loaded with thoroughly modern charm.

Arturo knows how to treat a girl from the 1950s right, but then he's done his research—Doris Day's capital letters are based on forms from *The ABC of Lettering*, by artist J. I. Biegeleisen, first published in 1940 and a standard reference for brush letterers.

The lowercase characters were inspired by ads of the period and by vintage lettering books. The verticals in the uppercase forms rise and curl like lazy smoke trails, retaining a hint of wild brushstroke, while the lowercase characters sit demurely at a low x-height waiting to waltz into the spotlight.

The overall effect of high and low is both playful and naughty, particularly if one types: "Hello from Rio. Miss you, darling." Be bold and choose 48 points and above for legibility. Doris Day comes with a full set of upper- and lowercase characters, and limited punctuation marks. No numerals, but who's counting? It also flirts in Spanish with accented characters, rotated punctuation, and diacritics. Licensed for noncommercial work, Doris Day is copyrighted by the designer. Farewell gray, dreary office fonts. We know the typeface we'll call up as soon as we get home.—KATE GODFREY



Create Your Own Sports Channel in iMovie

The sports interface lets you cheer the home team with a new category of specialty videos

BY JEFF CARLSON

Baseball season is well underway in the United States, and in addition to the professionals, little league teams and community leagues are also swinging for the fences. If you capture the action with a video camera, you can use a little-known feature in iMovie '11 that lets you build a database of team members (of any sport) for creating highlight videos.

Step 1: Create a Team

First, build a team in iMovie's Sports Team Editor. Choose Window ► Sports Team Editor to open the editor. A sample team appears in the Teams list (the Leopards), but you'll want to create your own.

Click the plus-sign (+) button at the lower left corner of the Teams list to create

a new team, and then rename it (you don't want to be just a Leopards farm team, do you?). To track a different sport, click the Sport pop-up menu to choose Baseball, Basketball, Football, Soccer, or Volleyball.

You can add a logo by clicking the plus-sign button in the Team Logo field and locating an image file on your hard drive. Drag the zoom slider to change the size of the image in the preview window, and drag the image itself to adjust its placement.

Step 2: Add Player Information

It's time to fill out the roster. Select your team, and, in the Players list, click the plus-sign button to add a new team member. Fill out the player's name and other data, and add a photo if you like.

Other than the Player Name field, you can customize the columns. For example, you may want to display a player's batting average or other stats that get updated over time. To change the column labels, click the expansion triangle next to Sports at the bottom of the window and edit the labels.

If you already track player info and stats elsewhere, such as in a spreadsheet, you can add that info fast by saving your data as a tab-delimited text file. Just click the Import Player List button in the Sports Team Editor to import the data. Click Done when you're finished entering team info.

Step 3: Create a Sports Project

In iMovie, create a new project and apply the Sports theme. Doing so unlocks the

a sound enhancing iPhone stand
HEAR THE DIFFERENCE



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THESE COLORS



Low Profile

wavecradle.com also on Amazon.com

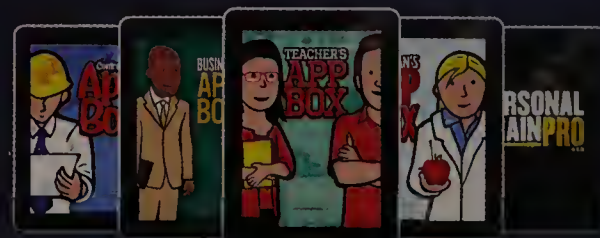
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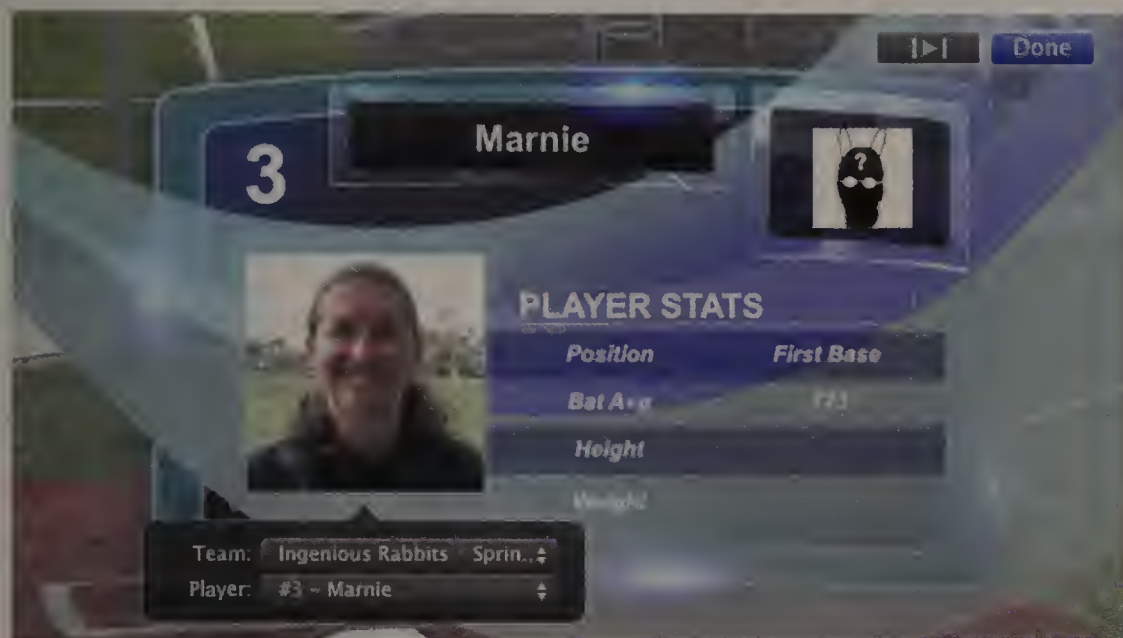


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— **VOCATIONAPPS.COM** —



Player Stats Superimpose a player's information over the sports action by using a theme title.

theme's titles, which take advantage of information in the Sports Team Editor. If you've already started a project, choose **File** ▶ **Project Theme** to change the theme.

Using the footage you shot, start building your movie by dragging clips from the

Event browser to the Project browser.

Step 4: Add and Edit Sports Titles

Click the **Titles Browser** button in the toolbar to view a theme's available titles. To add a title, drag it onto a clip in your project.

Depending on the title you use, pop-up windows appear in the Viewer that let you choose teams and players. In the **Player Stats** title, for example, pick a team and a player to view that person's name, photo, and statistics. (If the windows don't pop up, click the title in the Project browser to edit it.) Other options include a scoreboard that pops down from the top of the screen, a title displaying the two opposing teams, and a title below that for text or a logo.

You can update stats in the **Sports Team Editor**. When you do, the current project displays a yellow warning triangle icon. Click **Update Project** in the editor to display the most recent data in the titles you added.

Whether you're a player, a coach, or a parent, iMovie '11's **Sports Team Editor** makes it easy to track and show important information for the entire season.

Jeff Carlson is a senior editor of TidBits and the author of *The iMovie '11 Project Book* (Peachpit Press, 2011).

Your iPhone/iPad Idea to Fruition in 2 Steps

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REVIEWS

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HARDWARE

Wacom Bamboo Stylus for iPad ▽

While the Wacom Bamboo Stylus for iPad resembles many other rubber-nib tools on the market, once you pick it up, it's obvious how much care and craftsmanship the company has put into this stylus. The pen is perfectly balanced in your hand, with just the right amount of weight distributed along the metal-framed body. The folks at Wacom have managed to give the Bamboo the necessary heft while keeping it as slim as a ballpoint pen. Drawing with this stylus is lovely, but writing takes the prize. You can jot down notes at several angles without ever needing to rest your hand on the iPad's bezel. Overall, this stylus is a pleasure to use, and is recommended for drawing or writing (macworld.com/7274).
 ⚡⚡⚡½; \$30; Wacom, www.wacom.com



to learn and use, and is generally speedy. Unfortunately, it's overwhelmed by bugs that cause it to crash and misbehave in frustrating ways (macworld.com/7275).
 ⚡⚡; \$60; Macware, www.macwareinc.com



WebsitePainter 1.4 ▽

A WYSIWYG Website builder needs a polished interface, a solid toolset, and a flexible canvas. Ambiera's WebsitePainter 1.4.1 lets you create Web pages without knowing HTML, but its missing features and limitations stand in the way of getting the job done easily. WebsitePainter's single window is built around a tabbed workspace. Beside it, resizable panes contain a toolset with elements you can add to your pages, a Properties editor to

customize them, and a directory of all pages in your site. Twelve rather humdrum templates are included, but each contains only a few pages. Despite its handy features, WebsitePainter 1.4.1 feels too much like a rough draft to recommend (macworld.com/7172).
 ⚡⚡½; \$58; Ambiera, www.ambiera.com

FontGenius 2

If you find yourself needing to identify fonts from printed or online samples, FontGenius 2 is the best option available. But even when supplied with the best source images, FontGenius could identify only fonts that had not been altered by the page designer—as fonts often are for book jackets, CD covers, and even headlines for major magazines. FontGenius isn't perfect—there are too many variables in typeface manipulation to guarantee success—but it's a huge timesaver when identifying fonts in average brochures and other collateral material (macworld.com/7273).
 ⚡⚡⚡½; \$40; FontGear, www.fontgear.net



SOFTWARE

Logo Design Studio Pro 2.1 ▽

Coming up with a clean, clever logo can be a challenge, especially if you have no experience as a corporate identity designer. Macware hopes to demystify this process with Logo Design Studio Pro 2.1, a potentially capable but unfortunately flawed app that lets you quickly create logos for, say, your home business, charity club, or sports team. You choose a template as a starting point, and select from hundreds of logo templates across categories including business and technology. Logo Design Studio Pro 2.1 has a pleasing design and user interface, is easy

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d2 DVD±RW w/LightScribe www.lacie.com	⚡⚡⚡	\$90	desktop	3900
MediaStation 8X External Blu-ray Writer (pictured) www.buffalotech.com	⚡⚡⚡	\$177	Blu-ray	5344



CAMCORDERS

High Definition

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Vixia HF M32 (pictured) www.canon.com	⚡⚡⚡	\$529	AVCHD/MPEG-4	6848

^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

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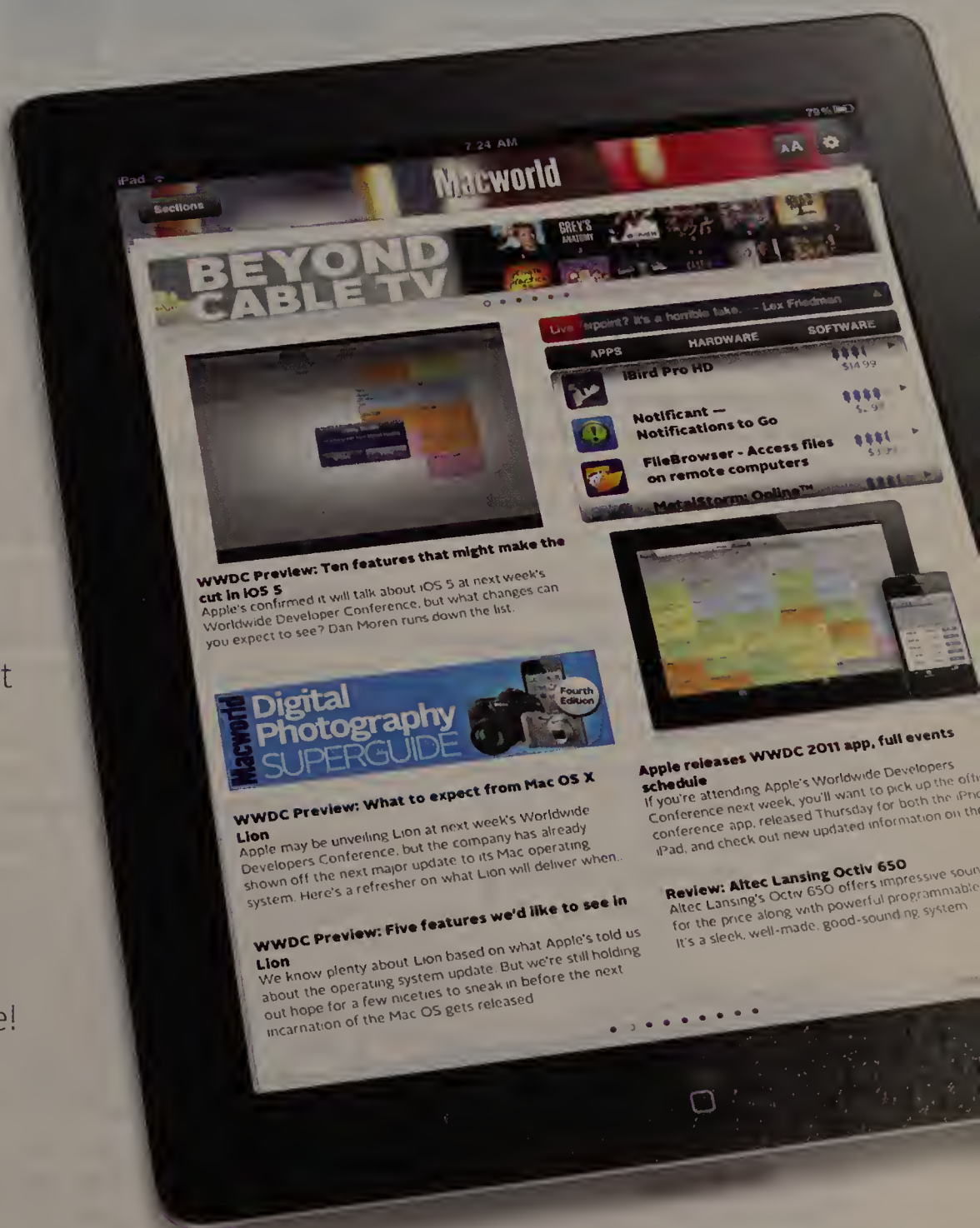


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HELP DESK

Answering Your Questions and Sharing Your Tips about Getting the Most from Your Mac

Mac OS X Hints

The insider tips you won't get from Apple

BY LEX FRIEDMAN

Quickly Delete iPhone Photos

It's all too easy to take lots of photos with your iPhone. But when you're ready to clear out the clutter and get rid of some of those shots, there's no obvious way to delete them.

The solution is to use Image Capture, the oft-neglected app that lives inside your Applications folder. Launch Image Capture and connect your iPhone to your Mac. The app will see your iPhone as just another camera, and it'll show you the photos you took with it.

You can now selectively delete photos before you import them from your phone. First, ⌘-click all the photos you want to delete. If you really want to delete everything, just press ⌘-A or choose Edit ► Select All. Then at the bottom of the Image Capture window, click the delete icon—the red circle with a line through it. Image Capture will ask you to confirm that you want to delete all those photos. If you tell the app that you are indeed ready to bid the pictures adieu, it will delete them immediately.

While you have Image Capture open, check out another handy thing it can do for you: prevent iPhoto from launching



Image Capture To keep iPhoto from launching when you plug in your iPhone, select another app in Image Capture.

every time you sync your iPhone. With Image Capture open, connect your phone, making sure the phone is selected in the application's Source list. At the bottom left of the program window is a pop-up menu from which you can select the photo application you want to open whenever you plug in the device. You can choose Image Capture instead of iPhoto—or you can opt not to have a program open at all.

preferences (Archive Utility ► Preferences) and open the After Expanding pop-up menu. Select Move Archive To Trash (if you want to play it safe) or Delete Archive (if you don't). If you'd rather just move the archive elsewhere after you expand it, you can choose Move Archive To and specify an existing folder or create a new one.

Now, whenever you unzip an archive file, the original .zip archive will vanish.

While you have Archive Utility open, you can explore some of its other handy options. For example, expanded files by default appear in the same directory as the archive itself. However, you can choose to put them somewhere else instead—in your Desktop folder, for instance.)

Extract Single Pages from a PDF

We've explained before how to use Preview to combine multiple PDFs into one document. Turns out you can do the

Have a Hint to Share?

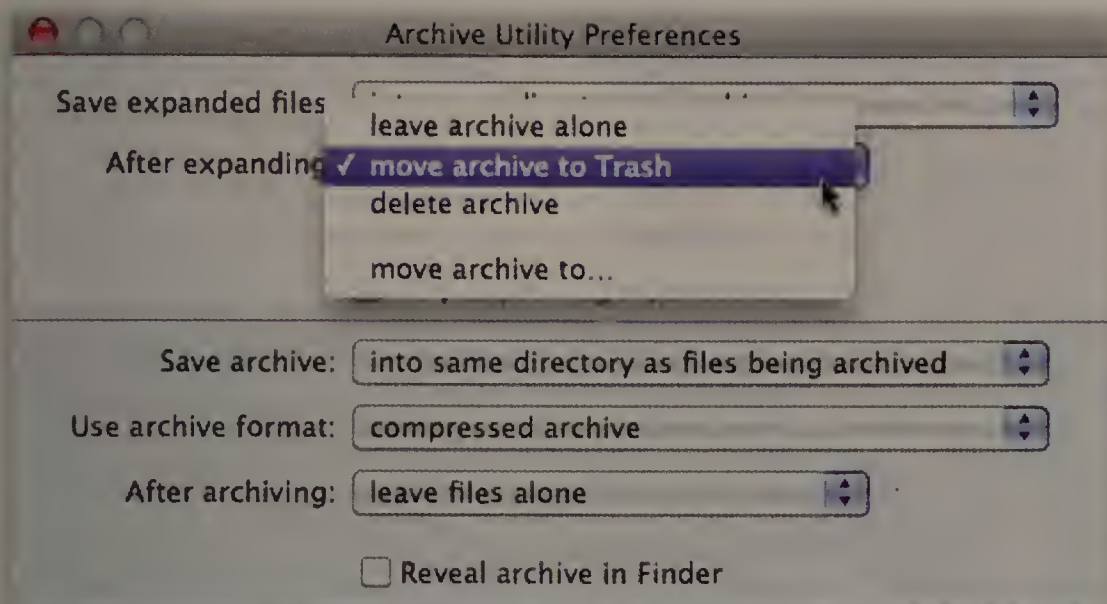
Navigate to MacOSXHints.com to submit it. This column was based on tips from James Detwiler, Colin Devroe, and anonymous contributors. Each month, the author of our favorite tip receives the *Help Desk* mug.



Autodelete .zip Files

Mac OS X makes opening a .zip file easy: You double-click it, and the operating system quickly unzips the file. But one thing bugs many of us: After the archive has been unzipped, the original file sticks around, along with its expanded contents. Fortunately, you can clean up zipped files automatically after expanding them.

Go to System/Library/CoreServices and open Archive Utility. Go to its



Archive Utility Specify what happens to old .zip files in this hidden app's preferences.

opposite, too—extract single pages from a longer PDF—and the principle is much the same.

First, make sure the sidebar is showing (press ⌘-Shift-D if it isn't) and that it's displaying thumbnails of the pages in the document (if not, press ⌘-Option-2). In the sidebar, click the thumbnail of the page you want to extract, and drag it to your desktop.

Preview will now create a new file with just that page, giving it the same name as the original file but with *(dragged)* as a suffix. If you ⌘-click to select multiple (even noncontiguous) pages from the sidebar and drag them all to the desktop, you'll create a single new PDF containing all of them.

Another Way to Sign PDFs

If you have to insert a signature into a PDF, the typical solution is to create a graphic file of your signature (perhaps by scanning a signed sheet of paper) and then insert that graphic into the PDF. That system works, but placing and sizing the graphic can sometimes be a hassle. One *Hints* reader came up with a clever alternative:

To start, you need to create a font based on your handwriting. There are several online services that will do this for you, but you can use the \$7 iFontMaker iPad app instead (macworld.com/7272): It lets you write letters by hand on the iPad's screen, and then it combines those letters in a TrueType font file. However you

create your handwritten font, here's the trick to creating your signature: Pick a character you don't expect to use (the caret [^], for example). But instead of drawing a caret for that character, write your signature.

That done, after you install your handwriting font on your Mac, you can type Shift-6 (the key combo for the caret) to insert your John Hancock. Because the signature is a graphic of text, you can use an app like Smile's



PDFpen (🔗; macworld.com/6786) or the free FormulatePro (code.google.com/p/formulatepro) to insert it into a PDF and place and size it properly. You can then save the completed PDF (still in PDF format).

Have Your Mac Tell You the Time

After a power outage, you're faced with a house full of blinking clocks that need resetting. You could walk around with a watch or an iPhone to use as a guide to reset them all. But where's the fun in that? Instead, turn your Mac into a talking clock.

To accomplish this, launch Terminal (in /Applications/Utilities), type the following code, and press Return:

```
while [ 1 ];do z=`date +%S`;if
[ `expr $z % 5` -eq 0 ];then say
`date "+%l %M and %S
seconds"`;fi;done
```

Your Mac will start announcing the time, and it won't stop until you press Control-C in Terminal or quit Terminal. (After the power has come back on and your Mac is up and running, your Mac will automatically sync its clock to a time server on the Net, so it should know the correct time.)

Select Pages

Just as you can combine pages in the Preview sidebar, you can also select specific ones and save them as a new PDF file.

Mac 911

Solutions to your most vexing Mac problems

BY CHRISTOPHER BREEN

Death and iTunes

Q: Someday—hopefully not today—I shall shuffle off this mortal coil, and then what will happen to my iTunes collection? Is there some way of transferring ownership of media I've purchased from Apple?

Via the Internet

A: If you pore over Apple's license agreements, the answer is no. For example, this piece of prose from Apple's legal department says this about apps:

You may not rent, lease, lend, sell, transfer, redistribute, or sublicense the Licensed Application and, if you sell your Mac Computer or iOS Device to a third party, you must remove the Licensed Application from the Mac Computer or iOS Device before doing so.

I've scoured Apple's iTunes Store Terms and Conditions documentation and I haven't found verbiage specific to movies, music, audiobooks, and e-books, but I'm assuming these same restrictions apply to those media flavors. Given that, Apple seems to be well within its rights to say that when you expire, so too does your purchased media.

However, Apple isn't populated with unfeeling monsters so it's possible that a direct appeal to the iTunes support team (which I've found to be extremely cooperative) is worth a try. You might scribble this address on the



bottom of your Last Will and Testament: iTunesStoreSupport@apple.com.

There are a couple of other things that your grieving survivors can do. If there's copy-protected iTunes music in your library, that music can be burned to a CD and, in turn, that CD ripped to another copy of iTunes to remove its music's copy protection. Or, while you're still in a condition where you're numbered among the living, you could convert your protected music to the iTunes Plus format, thus removing its protection.

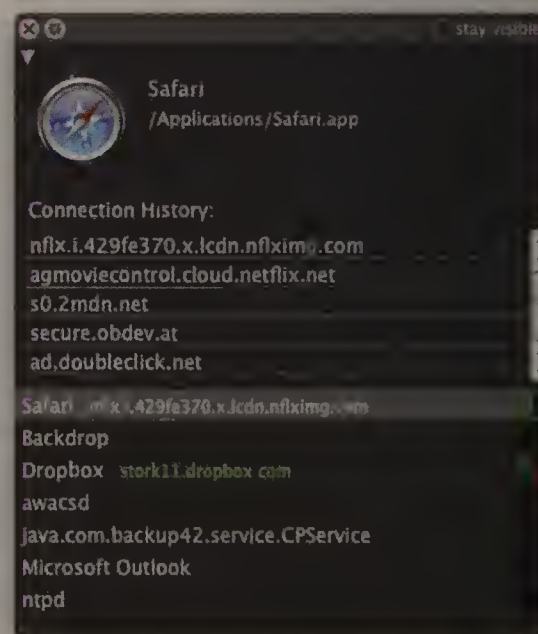
I can't swear the following will work, but it, too, may be worth a shot: Provide your next of kin with your current Apple ID, password, and payment details so that they can access your account after they've taken care of more important matters. Once in your account, they can change the payment and contact information.

Monitor Internet Usage

Q: My home Internet connection has slowed to a crawl. Is there a way I can monitor which applications are eating up my bandwidth?

Via the Internet

A: There is, with the help of one of a few utilities. Object Development's \$30 Little Snitch (www.obdev.at) includes a network-monitoring function (found by opening Little Snitch Configuration's preferences, selecting the Monitor tab, and switching on the Network Monitor option). In the window



Snitching on Bandwidth Hogs Little Snitch's Network Monitor window can show you which applications are eating your bandwidth.



Have a Problem?

Go to the Mac 911 forum (macworld.com/2467) for help with your misbehaving Mac or applications.

that appears, you'll see a list of all the applications that are currently accessing the Internet, along with meters next to each one that light up when data is passed back and forth. The application that's biting off the greatest portion of your bandwidth appears at the top of the list (see "Snitching on Bandwidth Hogs"). So, when your connection is running slowly, take a gander at this window to learn where your bandwidth is going. If it's an application you can do without, or configure so that it's not hitting the Internet so often (or with such force), make the necessary adjustments.

ProteMac's \$30 Meter (www.protemac.com) is a network-traffic logger. With it you can not only generate charts of traffic activity (thus looking for spikes and lulls), but also monitor application traffic in real time.

Finally, there's Conceited Software's €30 Rubbernet (rubbernetapp.com). It, too, monitors your Mac's network. What it gives you in addition is the ability to monitor other computers on your network. Just install the Rubbernet daemon on those computers, and you can see what they're up to. You can then use this information to diagnose local networkwide slowdowns.

Dispose of Old Technology

Q While cleaning out my garage, I came across a box stuffed full of old floppy disks that have a lot of personal data on them. What would be a safe and ecological way to dispose of them?

John Boyd

A It depends on how rough you want to get with them. Nearly any child can be coaxed into destroying just about anything when provided with a hammer, safety goggles, and some parental encouragement. Power tools (in your hands, not your child's) are also an option. If you'd rather not physically assault your floppies, check your local electronics emporium for a bulk eraser—an electronic device that, when liberally applied, will scramble the disks' data with a strong magnetic field.

Bugs & Fixes BY TED LANDAU



Fix Calendar Slowdowns

I recently noticed a sharp decline in the responsiveness of BusyCal on my Mac. The culprit was the large number of events my wife and I maintained. The problem is that we want to keep some of these past events for record-keeping purposes. So how do I effectively delete past instances of a recurring event while maintaining the future event listings? When I select to delete a recurring event, I am given three choices: delete just the single selected event, delete that event and all future events, or delete all instances of the event. None of the choices are what I want. So I came up with a workaround that did the trick:

Click any instance of a recurring event, and select Copy Event from the File menu. From the dialog box that appears, select Copy All. Staying with the same event, next select Delete Event and, from the similar dialog box that appears, select Delete All. Finally, navigate to the next future date when the recurring event is to happen. Select that day and choose Paste Event from the File menu. This will restore the event starting at that point and will include all future instances. The unwanted past events will be gone.

Once you're confident that your personal data can't be compromised, recycle your floppies. There are a variety of ways to do this. Companies such as GreenDisk (www.greendisk.com) will take shipped electronic waste for a price and dispose of it responsibly. But there's a good chance that you may not need to look so far afield. Your local waste-disposal service may take and recycle your electronic waste. Some community services and schools do as well, because they can then turn around and sell it to recyclers.

Clear Up Confusion with iPhone Syncing

Q After enduring some fairly insistent prodding, I upgraded

Note: While this worked great in BusyCal, it appears that you can't do the exact same thing in iCal. Apple's calendar program doesn't include a Copy All option. You can develop a similar workaround, but it will require more steps.



iPad Accessibility Bug

Though it's not a bug a lot of iPad users will discover, a bug it remains. On an iPad, when you go to Settings ► General ► Accessibility, switch on VoiceOver, and then navigate to the Zoom command and switch it on, you'll be notified that you can't run both VoiceOver and Zoom at the same time. If you choose to enable Zoom, the Zoom function doesn't work properly. The iPad will remain zoomed in, and no matter how many times you tap with three fingers or attempt to scroll, nothing will come of your efforts. If you've done this and are stuck with a zoomed-in iPad, the fix is to restart the iPad. Zoom will then work properly. To avoid the problem, turn off VoiceOver and then turn on Zoom.

Senior Contributor **Ted Landau** is the founder of MacFixIt (www.macfixit.com). Share your problems at bugs@macworld.com or on Macworld.com's Mac 911 forum.

my Yahoo Webmail to the latest beta version. When I logged in and took a look at it, I was surprised to find that those little notes I write to myself on my iPhone have been synced to Yahoo. How do I reclaim my notes?

Simon Tanner

A Syncing with the cloud can be confounding, so I'm not surprised that you're perplexed by what's happened. That said, while it's considered bad form to blame the victim, you had the power to prevent this from happening from the get-go.

When you set up a Yahoo e-mail account on your iPhone in the Mail, Contacts, Calendars setting, after the

X MAC 101

Insert Fractions into Documents

Q: How I can get the characters for $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{3}{4}$ the same way I can type an é, ñ, ç, ü, µ, œ, and %?

Via the Internet

A: Well, you can't type them, but you can insert them another way. Go to the Language & Text system preference and select the Input Sources tab. Enable the Keyboard & Character Viewer option, and enable the Show Input Menu In Menu Bar option at the bottom of the window.

Now, when you wish to insert a "real" fraction in a document, choose Show Character Viewer from the Input icon in the menu bar (the menu that, by default, is represented by a flag). In the Search field at the bottom of the Characters window, type the name of the fraction you're looking for—**half** or **eighth**, for



example. A list will appear that features all entries that match your query. For example, typing **eighth** will get you $\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$, and $\frac{7}{8}$ (see screenshot). To insert one, just double-click on it, or select it and click the Insert button.

verification step, you see a window that includes three entries—Mail, Calendars, and Notes. Those On/Off toggle switches next to each entry tell your iOS device whether to sync that particular flavor of data with Yahoo's Website. In your case, I'll bet dollars to doughnuts that if you choose your Yahoo account on your iPhone, you'll find that the Notes switch is set to On. This is not the default setting when you create an e-mail account, so I'm afraid that this is something you did when creating the account on your iPhone. Fortunately, it's easily undone. Just flick the slider to Off and your notes will no longer be synced to Yahoo.

While we're clearing up that bit of confusion, I should point out that the Sync Notes entry you find in the Info tab when selecting your iPhone in iTunes' Source list has no effect on cloud syncing. Rather, it's for syncing notes with your computer.

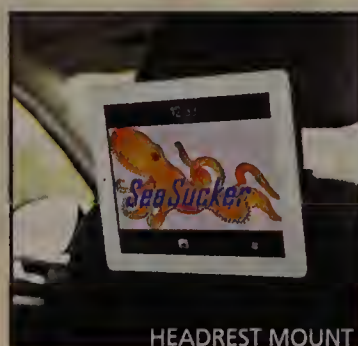
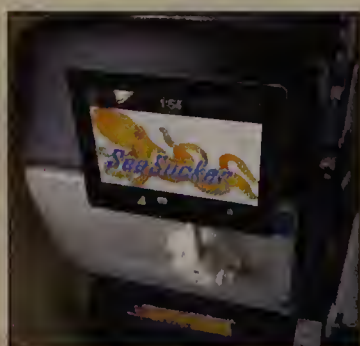


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Fix Duplicate iPhone Entries

Q: I have an iPhone and MobileMe. When I sync iCal to MobileMe and my iPhone, I get duplicates of items in my iPhone calendar. I've tried various combinations of checking and unchecking syncing options, but I still get the duplicate entries.

Michael Beaudoin

A: Apple's new iCloud service should eliminate such problems, so if you have a Mac that can run OS X 10.7 (Lion) and an iPhone running iOS 5, get an iCloud account. (Lion is scheduled to be released in July, and iOS 5 and iCloud are due to be released this fall). If you're stuck with MobileMe for the moment, read on.

If calendar syncing with both MobileMe and iTunes is on, you'll see duplicates. To check your settings, attach your iPhone to your Mac, select it in iTunes' Source list, choose the Info tab, and peer at the Sync iCal Calendars entry. Look for these words:

Your calendars are being synced with MobileMe over the air. Your calendars will also sync directly with this computer. This may result in duplicated data showing on your device.

This tells you that you need to make a choice between syncing with your Mac or syncing with MobileMe. You can disable calendar syncing within iTunes by unchecking the Sync iCal Calendars option. When you do, iTunes will offer to remove its calendar entries from your iPhone. Or you can turn to your iPhone: Choose Mail, Contacts, Calendars; select your MobileMe account; and flick the On/Off toggle switch next to the Calendars entry to Off. You'll be offered the option to delete these calendar events from your iPhone.

But suppose you have different events in the calendars you synced from your Mac and the calendars that

are synced via MobileMe, and you'd like all of your events to show up on the iPhone. What to do? Try this:

Attach your iPhone to your Mac and, in the Info tab, disable iCal syncing. When prompted to keep or remove the calendars currently on the iPhone, choose to keep them and click the Apply button at the bottom of the window. Now move to your iPhone; choose Settings ► Mail, Contacts, Calendars; and select your MobileMe account. Flick the On/Off toggle next to Calendars to Off. You'll be given the choice to keep or delete your calendars. In this instance, delete them (don't worry—they're stored in the cloud). Now switch this Calendars toggle back on. In the sheet that appears, tap Merge. What happens? The duplicate events currently stored on your iPhone (the ones synced from your Mac) and on MobileMe will be merged into a single event. Any additional events not found in your MobileMe calendar will be added to MobileMe.

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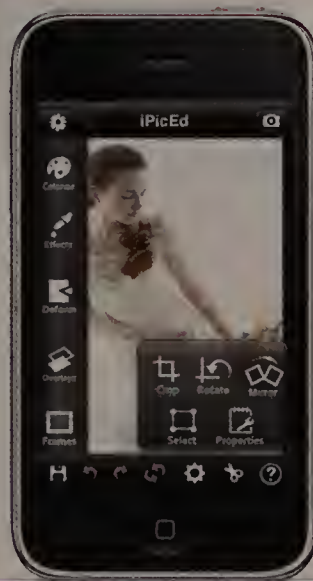
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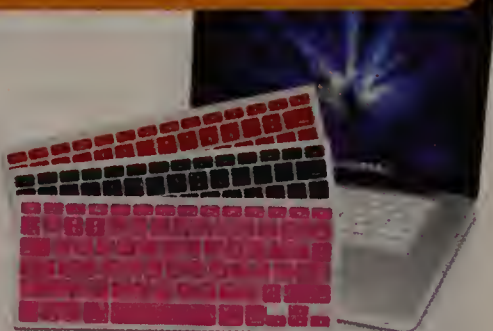
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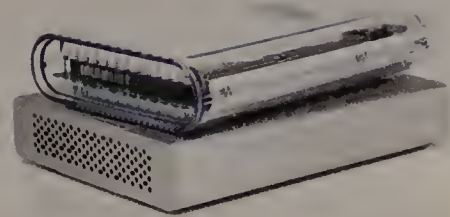
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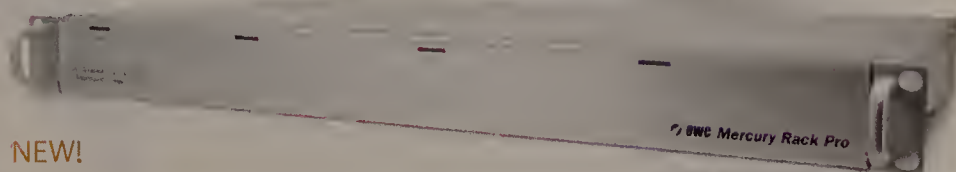
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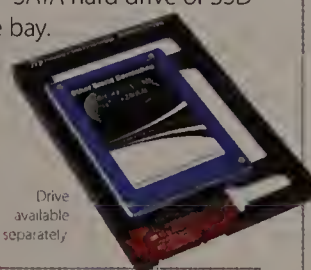
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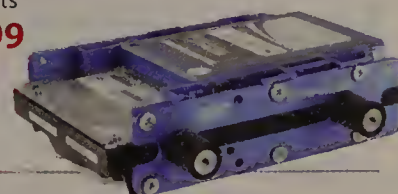
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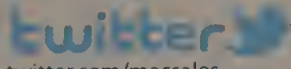
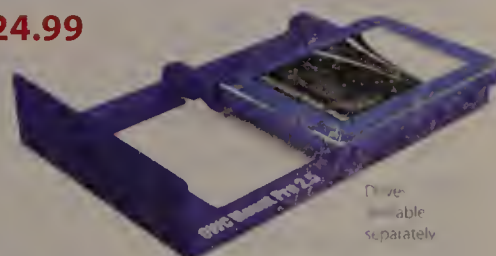


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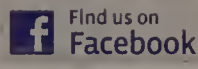
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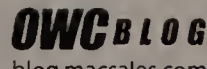
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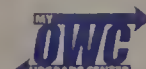
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BaseOneLabs	baseonelabs.com	55
Booq LLC.	booqbags.com	C2
Bose Corporation	bose.com/headphones	57
C		
Cablejive	cablejive.com	95
Carbonite	carbonite.com	61
CD&V Applications, LLC.	vocationapps.com	80
Circus Ponies Software	circusponies.com	17
Corning	corning.com	C4
Creative Juices	bigposters.com	98
D		
DriveSavers Data Recovery	drivesavers.com	97
E		
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F		
FatCow Hosting	fatcow.com/mac	73
Fujitsu	us.fujitsu.com/macworld	3
H		
Hyperbolic Software	hyperbolicsoftware.com	8
I		
IGG Software	go-ibank.com	39
iHome	ihomeaudio.com	19
Incipio Technologies	myincipio.com	75
Inkfarm.com	inkfarm.com	98
Insight Cruises	insightcruises.com/mac12	77
Irwin Naturals	appliednutrition.com	64
J		
Just Mobile, Ltd.	just-mobile.com	38
K		
Kinekt Design	kinektdesign.com	98
M		
Mac of All Trades	macofalltrades.com	97
Mace Group/Macally	macally.com	12
Macessity	macessity.com	94
MacPaw	macpaw.com/ensoul	96
Micromat	micromat.com	13
Moobila Corporation	moobila.com	89
Mophie	mophie.com	15
MW Daily Reader	macworld.com/dailyreader	83
MW Insider	macworld.com/insider	93
N		
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O		
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S		
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Sanho Corp	hypermac.com	4
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Sea Sucker	applemount.com	88
SeafoodByNet.com	seafoodbynet.com	98
Sedna GmbH	sedna-presenter.com/ats	94
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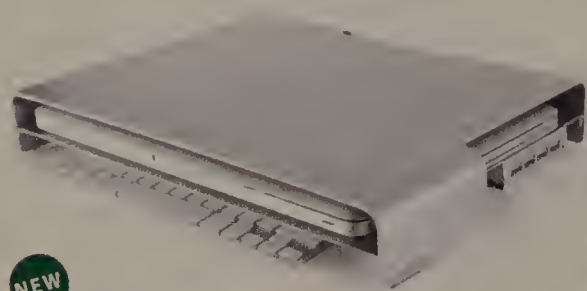
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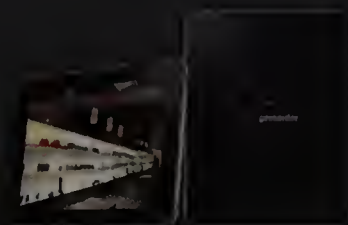


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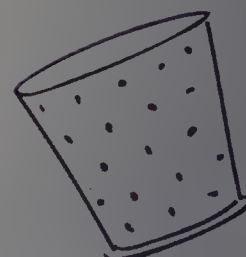
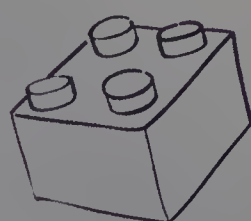
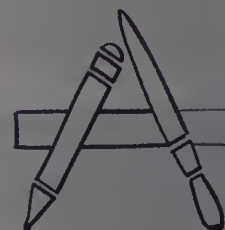
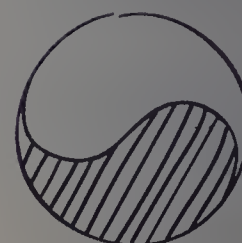
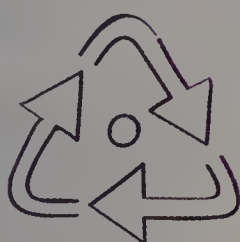
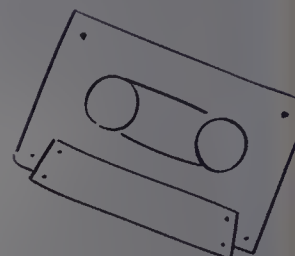
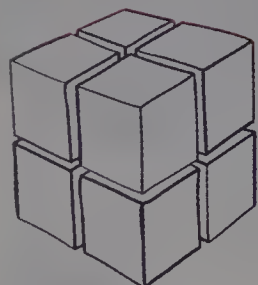


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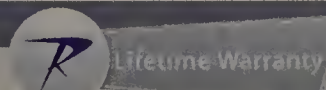
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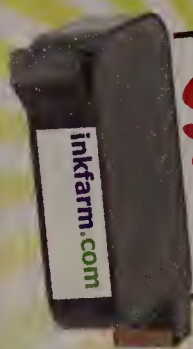
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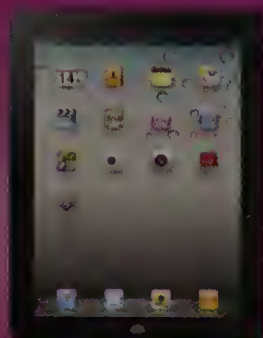
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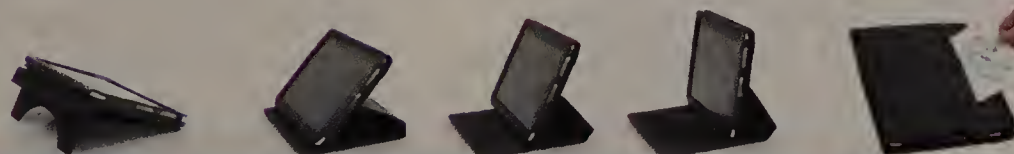


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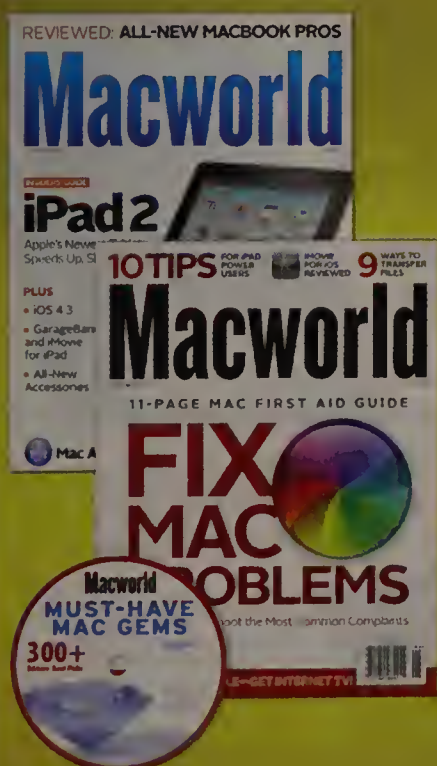
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The iOS Age

Devices based on today's iPads and iPhones will still be with us 30 years from now

Though the iPad has been on the market for just one year, it's already clear that its impact will be felt for a long time. If you remember that the Mac has been with us since 1984, I think you have to conclude that iOS devices will be around for decades. But how will they evolve?

The Hardware

Compare today's MacBook Air with the original Mac: The Air's display has 20 times as many pixels, with millions more colors. Its memory storage is tens of thousands of times larger. Will we see similar increases in iOS devices?

On the screen, I don't think so. Apple's Retina display has already reached the limit of what our eyes can see and our brains can perceive; adding more pixels or colors would be pointless. Future developments in displays will require a big technological shift, like the move from CRTs to LCDs. I think that leap will be to some form of electronic ink—and it will look nothing like what today's Kindle uses. If you look back at the LCD watches of the 1980's, it's hard to imagine they were the forebears of the big, beautiful monitor on your desk or the Retina display in your hand. Electronic ink will evolve as well.

At the start of my career, in the 1980's, I worked on a system that provided a full terabyte of storage; it filled a room. Now I hold that much memory in the palm of my hand. There's no reason to think these advances won't continue (though not at the same pace). But it's important to remember that the stuff we store keeps getting bigger, too. You weren't storing 10-mega-pixel photos on your 128K Mac, were you?

I think the greatest hardware change will be in networking. With iOS, connectivity is not only built into every device, it's ubiquitous. If you have a signal (via a cellular network or Wi-Fi), you have the Internet at your finger-tips.

As our appetite for bandwidth increases, so will the infrastructure that supplies it. At the rate we're going, future devices will sport 15G networking with 30 terabytes of bandwidth per month (though AT&T customers will doubtless still be stuck on 14G). We'll also see advances in networking at a more personal level. As more people own these devices, it will make sense to share their connective capabilities, just as we share photos and music now. For a hint of what's to come, look at how you can share an iPhone's Internet connection with an iPad.

The Human Element

In other ways, the 2041 iPad will be much like today's. Take a look at the keyboard and mouse from 1984: They're not much different from the versions you're using now. That's because our bodies haven't changed substantially in the past 30 years. (Gray hairs and expanding waistlines don't count.)

Multitouch devices are particularly subject to the limits of human evolu-

tion: The fingers we use for interaction won't change, so neither will the controls, or the care that designers take in placing them on our screens. I'd wager that we'll still be pinching, zooming, and swiping, too.

Whenever Steve Jobs announces a new iOS device, he's quick to mention how thin it is, how much less it weighs than its predecessor, and how much longer the battery lasts. Those specs will continue to be vital: Portability and comfort will still be among the most important hardware features.

With this in mind, I'd expect future devices to be roughly the same size as those we have today. But they'll be more adaptable. Much as a newspaper can be folded over while you read it on a bus or opened completely while it's on the kitchen table, I wouldn't be surprised if future devices will be able to morph physically—to be as big as we need them to be for reading or small enough to fit into a pocket or purse.

Industrial designers will still be faced with ergonomic challenges. Anyone who's typed a long document on an iPad knows the pain caused by long periods of tapping and swiping on a solid surface. If comfort remains one of the key features of mobile devices, ergonomic solutions will become marketing advantages.

The fingers we use for interaction won't change, so neither will the controls.



Exciting Times

I was fortunate enough to be around when the original Mac was launched. The years since then have been a blast, but I think the next 30 years will be even more exciting. I can't wait to see the fantastic things that will be built by the children who are just now learning to touch their computers.

Craig Hockenberry is the author of *iPhone App Development: The Missing Manual* (Pogue Press, 2010). You can follow him at twitter.com/chockenberry.



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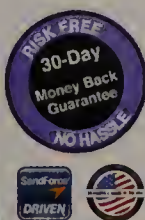


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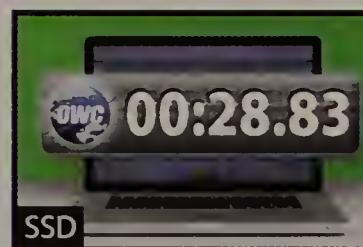
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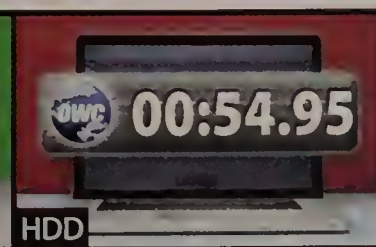


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A black and white photograph of a gorilla sitting and holding a smartphone in its right hand. The gorilla is looking at the screen with a focused expression. The background is a plain, light-colored wall.

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